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National Occupational Classification (NOC) 2021 Version 1.0

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Preface

The publication of the National Occupational Classification (NOC) 2021 is the thirtieth anniversary of the standard occupational classification system and it introduces a major structural change. The NOC 2021 Version 1.0 overhauls the “Skill Level” structure by introducing a new categorization representing the degree of *Training, Education, Experience and Responsibilities* (TEER) required for an occupation. The NOC 2021 Version 1.0 also introduces a new 5-digit hierarchical structure, compared to a 4-digit hierarchical structure in the previous versions of the classification. This revision is extensive; the last structural revision was NOC 2011.

Acknowledgements

The National Occupational Classification (NOC) 2021 is published, in partnership by Employment and Social Development Canada (ESDC) and Statistics Canada (StatCan). The NOC 2021 Version 1.0 has been made possible through the significant contributions of a number of individuals and groups, including a team of occupational research analysts and assistants from both ESDC and StatCan. Their commitment to excellence is evident in this new version of the NOC’s foundational system used for structuring and describing occupations in the Canadian labour market and for managing the collection, analysis and reporting of occupational statistics. The partnership and collaboration between ESDC and StatCan has ensured that quantitative and qualitative information on occupations continues to be reliable, timely and relevant for a wide range of audiences.

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Introduction

Purpose of the classification

The National Occupational Classification (NOC) Canada is a classification of occupations designed primarily for use in statistical programs. It is also used for employment-related program administration and to compile, analyze and communicate information about occupations, such as labour market information. Occupational information is of critical importance for the provision of labour market and career intelligence, occupational forecasting, labour supply and demand analysis, employment equity, job training and skills development, and numerous other programs and services. It provides a standardized framework for organizing the world of work, for pay or profit, in a manageable, understandable and coherent system.

Statistical classifications are comprehensive structured lists of mutually exclusive categories or classification items.¹ In practice, this means that there is always a category in the classification for an object that falls within the scope of the classification, and that the object can be classified in only one category. The section titled “**The underlying concepts**” further discusses the object and scope of NOC.

The structure of the NOC is hierarchical. This type of classification system enables the collection, analysis and publication of data at different levels of detail, in a standardized way. The section titled “**The classification structure and coding system**” discusses the structure of the NOC in greater detail.

The purpose of standard classifications is to support the integration of data obtained from multiple sources by organizing the documentation, collection, processing, presentation and analysis of data in a systematic manner. Classifications are essential elements of a coherent and efficient statistical system.

The NOC has been developed to support the integration of occupational statistics. The next section provides a background on the NOC, the potential impact of the redesign and a sense of the different applications of the classification.

Background

The NOC was jointly developed by Employment and Social Development Canada (ESDC) and Statistics Canada (StatCan), and has been maintained in partnership since the first edition published in 1991/1992. Prior to 2011, ESDC NOC and StatCan NOC-S differed in their major group structures and, consequently, in their coding systems. However, the revised NOC 2011 eliminated the differences between the two former systems.

As the Canadian economy and society changes, it is common practice for classifications to be updated and revised as new industries, products, occupations and educational programs are introduced. NOC structural revisions are planned every 10 years and content was updated every 5 years to respond to labour market changes. Starting in 2017, the NOC 2016 has undergone content updates approximately every year to ensure users have the most up-to-date information. This publication of the National Occupational Classification (NOC) 2021 represents a major structural revision of the NOC based on its 10-year revision cycle.

Revising the NOC

The NOC 2016 structure and format are based on a four-tiered hierarchical arrangement of occupational groups with successive levels of disaggregation. It contains broad occupational categories, major, minor and unit groups. It is categorized based on two major attributes of jobs, the “Broad Occupational Category” and the “Skill Level”, as classification criteria. The former was defined as the type of work performed, with respect to the educational discipline or field of study for entry into an occupation and the industry of employment (e.g. health occupations or sales and service occupations). The “Skill Level” categorization is primarily defined by the amount and type of education and training usually required to enter and perform the duties of an occupation, but also considers experience, complexity and responsibilities. See NOC 2016 Structure below.

1. According to the [Generic Statistical Information Model \(GSIM\)](#): A Classification Item represents a category at a certain Level within a Statistical Classification. It defines the content and the borders of the category. An object/unit can be classified to one and only one Classification Item at each Level of a Statistical Classification.

NOC 2016 Structure²

Broad Occupational Category or the skill type criteria is...	when the first digit is...
Management occupations	0
Business, finance and administration occupations	1
Natural and applied sciences and related occupations	2
Health occupations	3
Occupations in education, law and social, community and government services	4
Occupations in art, culture, recreation and sport	5
Sales and service occupations	6
Trades, transport and equipment operators and related occupations	7
Natural resources, agriculture and related production occupations	8
Occupations in manufacturing and utilities	9

Skill Level category or the skill level criteria is...	when the second digit is...
Skill Level A	0 or 1
Skill Level B	2 or 3
Skill Level C	4 or 5
Skill Level D	6 or 7

The NOC 2021 Version 1.0 was developed through ongoing discussions between ESDC and StatCan as well as consultations with stakeholders. During consultations leading toward the NOC 2021 revision, it was suggested to add a new “Level” to the NOC 2016 Skill level categorization, to clarify the distinction in formal training or education required among unit groups, especially in the current “Skill Level B”, which has a wide range of formal training or educational requirements. Over time due to the changing world of work, the NOC 2016 “Skill Level B” became a disproportionately large group and thereby limited the ability to analyze distinctions amongst a large percentage of occupations.

Another observation during the revision process was the use of the “Skill Level” categorization in the NOC as possibly being misleading because training and education, which are the main building blocks of the NOC’s “Skill Level” categorization, are not considered as “skills” in the labour market. With regards to skills, many countries and organizations are currently developing their own skills taxonomy (which include concepts such as numeracy and literacy). Therefore, it was deemed appropriate for the NOC to move away from the “Skill Level” categorization.

The NOC 2021 Version 1.0 represents a major structural revision whereby the existing occupational groups are reviewed alongside input collected from many relevant stakeholders through consultation. The main accomplishment of the NOC 2021 Version 1.0 was the overhaul of the “skill level” categorization by introducing a new categorization representing the degree of Training, Education, Experience and Responsibilities (TEER) required for an occupation.

The redesign of the NOC for 2021 moves away from the previous version of NOC with four “Skill Level” categories to an innovative six-grouping “TEER” categorization. This change is necessary for several reasons. First, the focus of the NOC is occupations and not skills and the “Skill Level” terminology is often misleading for many stakeholders. This change will reduce confusion. Second, some NOC users artificially create or infer a low- versus high-skill categorization. This redesign moves away from high/low skill categorization as the TEER more accurately captures differences in occupational requirements, which in turn will aid in the analysis of occupations.

2. See [NOC 2016 classification criteria](#) for additional details.

The section titled “**The classification structure and coding system**” discusses the structure of the NOC 2021 Version 1.0 in greater detail.

These changes significantly improve how the NOC classification takes into account the distinctions in formal training and educational requirements and better reflects skill and knowledge development occurring through on-the-job experience. At the same time, it increases the homogeneity of the distribution of unit groups within the classification, and addresses concerns about the “Skill Level” categorization and the distribution of unit groups among them.

The transition from the “Skill Level” to the “TEER” categorization makes the distribution of occupations across the “TEER categories” more balanced. The change in the distribution of unit groups is summarized in the tables below.

Distribution of NOC Unit Groups by Skill Level / TEER

NOC 2016 V1.3 Distribution of Unit Groups by Skill Level	NOC 2021 V1.0 Distribution of Unit Groups by TEER		
		TEER Category 0	9%
Skill Level A	28%	TEER Category 1	19%
Skill Level B	42%	TEER Category 2	31%
Skill Level C	24%	TEER Category 3	13%
Skill Level D	6%	TEER Category 4	18%
		TEER Category 5	9%

The NOC is the nationally accepted taxonomy and organizational framework of occupations in the Canadian labour market. It is important to note that the redesign of the NOC can have significant implications for several Surveys, such as the Labour Force Survey (LFS), and ESDC programs such as the Temporary Foreign Worker Program and Employment Insurance program. This change may have significant impact on various programs throughout other federal departments, as well as provincial, territorial and municipal governments and many users of the NOC.

The NOC 2021 Version 1.0, as of August 10th, 2021, is now the departmental standard for data collection and dissemination for occupations at Statistics Canada. Implementation dates for each new classification version such as NOC 2021 Version 1.0 will vary based on when statistical surveys or programs; entities; organizations or individuals decide to use it.

The underlying concepts

Statistical classifications are built around three basic concepts: the object classified or statistical unit, the scope or universe of the classification, and the criteria used to group statistical units in standard categories or classification items.

The statistical unit

The basic principle of the NOC is the kind of work performed. The statistical unit or object being classified using the NOC is the concept of a “job”. A job encompasses all the tasks carried out by a particular person to complete their duties. A job title represents the name given to a job or a position. The term job is used in reference to employment or in self-employment.

An occupation is defined as a collection of jobs, sufficiently similar or identical in work or tasks performed to be grouped under a common label for classification purposes.

The scope of the classification

The scope of the NOC is all occupations and jobs in the Canadian labour market undertaken for pay or profit, including people who are self-employed.

The NOC is not designed to include work or tasks not undertaken for pay or profit, for example, voluntary work. However, a person may complete work not for pay or profit where the tasks completed may be described within some occupational groups.

The classification criteria

The classification criteria refers to the attribute(s) of the statistical unit used to create the most detailed categories of the classification and to group them into analytical aggregates. These attributes must be observable and verifiable in the context of a statistical operation, or it must be possible to derive the information as a set of observed characteristics.

The NOC is built through the application of two major attributes of jobs as classification criteria: broad occupational categories and TEER categories. There are ten broad occupational categories and six TEER categories.

- The ten broad occupational categories are defined by the type of work performed based on the industry of employment and field of study required for entry into an occupation. Within the broad occupational categories factors such as the materials processed or used, the industrial processes and the equipment used, as well as the products made and services provided, have also been considered when combining jobs into occupations and occupations into groups.
- The six TEER categories stand for the Training, Education, Experience and Responsibilities required for occupations. A **TEER category** is defined by the amount and type of training and education required to enter and perform the duties of an occupation. It also takes into consideration the experience required and the complexity of responsibilities involved in the work. Each TEER category reflects commonly accepted paths to employment in an occupation.

The next section “**The classification structure and coding system**” provides more detail on how these two criteria together create the classification structure.

The classification structure and coding system

The NOC contains a standard classification structure and standard variants of that structure. The standard structure is intended for broad use, whereas each variant is designed to meet a specific user need. The NOC provides a systematic classification structure that categorizes the entire range of occupational activity in Canada. Its’ detailed occupations are identified and grouped primarily according to the work performed, as determined by the training, education, tasks, experiences, duties and responsibilities for an occupation.

The Standard NOC 2021 Version 1.0 classification structure

The **standard classification structure** uses a five-tiered hierarchical arrangement of occupational groups with successive levels of disaggregation and contains broad, major, sub-major, minor and unit groupings. The structure of the NOC 2021 Version 1.0 is based on two key occupational categorizations: Occupational categories and TEER categories, which are identified in the first two digits of the 5-digit code, as shown in the table below.

Title of Hierarchy	Format	Digit	Represents:
Broad Category	X	First Digit – X	Occupational categorization
Major Group	XX	Second Digit – xX	TEER categorization
Sub-major Group	XXX	xxX	Top level of the Sub-Major Group
Minor Group	XXXX	xxXX	Hierarchy within the Sub-Major Group
Unit Group	XXXXX	xxXXX	Hierarchy within the Minor Group

Note: As the first digit identifies the Occupation and the second digit identifies the TEER, they are also referred to as the Major Group.

The hierarchical approach of the NOC ensures collection, dissemination and analysis of data at different levels of detail, in a standardized way. Each number or digit at each hierarchical level has a distinct meaning. Each hierarchical level of the classification is described below, from the most detailed to the most aggregated level.

Nomenclature and number of categories within each level of NOC 2021 Version 1.0

Level	Coding	Number of categories
Broad Category	1-digit and first digit of all codes	10
TEER	Second-digit of all codes	6
Major Group	2-digit representing the broad category code and the TEER code	45
Sub-major Group	3-digit	89
Minor Group	4-digit	162
Unit Group	5-digit	516

Broad categories

The *Broad Category (first digit)* of the classification represents the occupational categorization which is defined by the type of work performed, the field of study, or the industry of employment. There are 10 Broad categories in NOC 2021 Version 1.0.

TEER categories

The *TEER Category (second digit)* of the classification represents the necessary training, education, experience and responsibilities of the occupation. There are 6 TEER categories in NOC 2021 Version 1.0.

Major groups

The *Major Group (first and second digits)* of the classification is represented by the Broad occupational categorization (first digit) and TEER categorization (second digit) together. A major group also encompasses several sub-major groups and thus represents the two-digit code used by the NOC. There are 45 major groups in NOC 2021 Version 1.0.

Sub-major groups

The *Sub-major Group (3-digit)* of the classification represents the aggregation of several minor groups and thus represents the three-digit code used by the NOC. There are 89 sub-major groups in NOC 2021 Version 1.0.

Minor groups

The *Minor Group (4-digit)* of the classification represents the domain in which an occupation is carried out (occupational domain). It is an aggregation of several unit groups and thus represents the four-digit code used by the NOC. There are 162 minor groups in NOC 2021 Version 1.0.

Unit Groups

The *Unit Group (5-digit)* of the classification is the most detailed level of the classification and represents one or several occupations combined together within the NOC. There are 516 units groups in NOC 2021 Version 1.0.

Example of coding in NOC 2021 Version 1.0: Judges, lawyers and Quebec notaries

Level	NOC 2021 V1.0 Code	NOC 2021 V1.0 Title
Broad occupational group	4	Occupations in education, law and social, community and government services
Major group	41	Professional occupations in law, education, social, community and government services
Sub-minor group	411	Professional occupations in law
Minor group	4110	Judges, lawyers and Quebec notaries
Unit Group	41100	Judges
Unit Group	41101	Lawyers and Quebec notaries

The Coding system of the NOC 2021 Version 1.0

As identified in the “Classification Criteria” the NOC 2021 Version 1.0 is built through the application of two major attributes of jobs as classification criteria: ten broad occupational categories (BOC) and six TEER categories.

NOC 2021 Version 1.0 Broad Occupational Categories

Broad Occupational Categories are defined as the type of work performed based on, notably, the field of study required for entry into an occupation and the industry of employment. The ten BOCs are classified from 0 to 9.

NOC 2021 V1.0 Broad Category - Occupation	when the first digit is...
BOC 0 - Legislative and senior management occupations This broad category comprises legislators and senior management occupations.	0
BOC 1 - Business, finance and administration occupations This broad category comprises specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting), as well as professional occupations in financial and business; administrative and financial supervisors and specialized administrative occupations; administrative occupations and transportation logistics occupations; and office and administrative support and supply chain logistics occupations.	1
BOC 2 - Natural and applied sciences and related occupations This broad category comprises occupations in natural sciences (including basic and applied sciences and experimental development), engineering, architecture and information technology. These occupations cover specialized middle management occupations in engineering, architecture, science and information systems; professional occupations in natural sciences (basic and applied sciences and experimental development); and technical occupations related to natural sciences (including basic and applied sciences and experimental development).	2
BOC 3 - Health occupations This broad category comprises specialized middle management occupations in health care, as well as occupations concerned with providing health care services directly to patients (professional and technical occupations in health) and occupations that provide support to health services.	3
BOC 4 - Occupations in education, law and social, community and government services This broad category comprises managers in public administration, in education and social and community services and in public protection services, as well as occupations concerned with teaching, law, counselling, conducting social science research, developing government policy, and administering government and other programs, and related support occupations.	4
BOC 5 - Occupations in art, culture, recreation and sport This broad category comprises specialized middle management occupations in art, culture, recreation and sport, as well as professional, technical, support and other occupations concerned with art and culture (including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums), recreation and sports.	5
BOC 6 - Sales and service occupations This broad category comprises middle management occupations in wholesale and retail trade, and customer services, as well as occupations concerned with wholesale and retail sales, and customer, personal and support service occupations related to a wide range of trade and service industries, such as accommodation and food services, travel, tourism and cleaning services.	6
BOC 7 - Trades, transport and equipment operators and related occupations This broad category comprises middle management occupations in trades, transportation and equipment, as well as occupations such as technical trades and transportation officers and controllers; general trades; mail and message distribution, other transport equipment operators and related maintenance workers; and helpers and labourers and other transport drivers, operators and labourers.	7
BOC 8 - Natural resources, agriculture and related production occupations This broad category comprises middle management occupations in natural resources, agriculture and related production, as well as occupations concerned with supervision and equipment operation in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Harvesting, landscaping and natural resources labourers are also included. Most occupations in this category are industry specific and do not occur outside of the primary resources industries.	8
BOC 9 - Occupations in manufacturing and utilities This broad category comprises middle management occupations in manufacturing and utilities, as well as occupations concerned with supervisory, production and labouring in manufacturing, processing and utilities.	9

The NOC 2021 Version 1.0 TEER Categories

The “TEER” categorization defines the requirements of the occupation by considering the type of training, education and experience required for entry, as well as the complexities and responsibilities typical of an occupation. In general, the greater the range and complexity of occupational tasks, the greater the amount of formal education and training, previous experience, on-the-job training, and in some instance’s responsibility, required to competently perform the set of tasks for that occupation.

The NOC 2021 V1.0 Training, Education, Experience and Responsibility (TEER)	when the second digit is...
Management - TEER	0
Completion of a university degree (bachelor’s, master’s or doctorate); or Previous experience and expertise in subject matter knowledge from a related occupation found in TEER 2 (when applicable).	1
Completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or Completion of an apprenticeship training program of two to five years; or Occupations with supervisory or significant safety (e.g. police officers and firefighters) responsibilities; or Several years of experience in a related occupation from TEER 3 (when applicable).	2
Completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or Completion of an apprenticeship training program of less than two years; or More than six months of on-the-job training, training courses or specific work experience with some secondary school education; or Several years of experience in a related occupation from TEER 4 (when applicable).	3
Completion of secondary school; or Several weeks of on-the-job training with some secondary school education; or Experience in a related occupation from TEER 5 (when applicable).	4
Short work demonstration and no formal educational requirements.	5

The NOC 2021 Version 1.0 conventions

This section outlines the conventions adopted in order to assist users in consistently assigning NOC 2021 Version 1.0 codes and titles.

The “Other” title

When a unit group ends with a “9”, it is used to classify occupations in an appropriate “other” occupation when a grouping does not account for all the workers in a group, even though such workers may perform distinct sets of work activities. These occupational groups are identified in their title by “Other” appearing at the beginning of the title. “Other” titles exist at the sub-group, minor group or unit group level, for example, Sub-major group 729 – Other technical trades; Minor group 2139 – Other engineers; and Unit group 32209 - Other practitioners of natural healing.

Language

The NOC is available separately in both official languages. It is important to note that the French version includes only titles commonly used in French and proper to the milieu and, therefore, these are not normally translations of the English titles. The classification structure is the same in both languages.

Unit group labels, examples titles, inclusions and exclusions are presented in a gender-neutral format or identified by the masculine and feminine titles separated by a slash.

Modifying terms for example titles

Modifying terms have been added to several job titles, as extensions, to designate the industrial sector or the domain of expertise. If applicable, this information is preceded by a dash at the end of the title (cashier

supervisor - retail) to distinguish between similar titles. These modifying terms may also specify where the titles appear in the classification structure (painter - visual arts; painter - motor vehicle repair). This information should be considered when coding job titles.

Proprietors

As a general rule, the class of worker status, that is, whether the respondent works for wages or is self-employed, is not considered for classification purposes.

An exception is made for proprietors in retail trade, food and accommodation services, and residential home building. These are classified as managers to the following unit groups:

- 60020 - Retail and wholesale trade managers
- 60030 - Restaurant and food service managers
- 60031 - Accommodation service managers
- 70011 - Home building and renovation managers

Supervisors

Supervisors are generally classified with the workers supervised and as a result would not have a separate unit group. But there are exceptions to this convention, for example, unit groups 31300 - Nursing coordinators and supervisors and 62010 - Retail sales supervisors.

Supervisors in the following occupational categories have been classified in supervisor unit groups separate from the workers supervised:

- administrative services occupations
- nursing occupations
- sales and service occupations
- trades and transport and equipment operators
- occupations in natural resources and agriculture
- occupations in manufacturing.

Even when separate supervisory unit groups exist, “lead hands” are not classified as such, as previous research has indicated that supervision is usually only a minor part of such jobs.

Inspectors, testers and graders

Generally, inspectors with TEER 2 requirements have been classified in separate unit groups or with technicians and technologists, with matching requirements. Other non-technical inspectors, testers, graders and samplers have been included either in separate unit groups covering occupations in processing industries or in unit groups of assemblers and fabricators in manufacturing industries. This is reflective of patterns of employment found within industries and the increasing responsibility for quality control that is placed on manufacturing production workers.

Apprentices and trainees

Apprentices and trainees have been classified in the same unit groups as the occupations for which they are training. Similarly, interns, residents and articling students are classified with their respective professional groups.

This convention has been adopted to prevent a proliferation of unit groups of apprentices. It is not intended to imply equivalence or interchangeability of apprentices or trainees with fully qualified workers.

Format of unit group descriptions

Each NOC unit group description consists of several standardized sections which define and describe its content.

Lead statement

This section provides a general description of the content and boundaries of the unit group and indicates the main activities of occupations within the unit group. It also indicates the kinds of industries or establishments in which the occupations are found. The list of places of employment is not always exhaustive, but can assist in clarifying the occupations described and in differentiating them from occupations found in other groups.

Illustrative examples³/ Example titles⁴

This section is a list of titles commonly used in the labour market. The titles are intended to illustrate the contents and range of the occupational group. This is not an exhaustive list of job titles.

Inclusions

This section provides a list of borderline job titles belonging to a particular NOC unit group. Inclusions are examples in classes where it might not be clear from reading both the class text and title that the example belongs in the class.

Exclusions

This section clarifies the boundaries of the unit group by identifying related unit groups and similar occupations that are classified elsewhere. Unit groups or individual occupations are cited in this section when they bear a functional similarity to the unit group or when similar titles occur.

Main duties

The main duties section describes the most significant duties of the occupations in the group. They are not intended to be comprehensive of all the tasks performed in the occupation. They represent key duties that are related to the occupation(s) associated with the unit group and can be listed using:

- a series of statements that can be applied to all occupations in the group;
- two or more sub-sets of occupations with statements that apply to each sub-set or component;
- a series of brief statements that are linked to specific occupations, that, while similar enough to be in the same group, can be described separately.

Statements in italics, at the end of this section, identify a specialization that may exist within the occupation.

Employment requirements

This section describes the employment requirements for the unit group. Several types of requirements are identified in this section and are listed in the following order:

- Type and level of education: for example, secondary school, college diploma, university degree and including specific subject matter if relevant, starting with the lowest possible requirement for entry into the occupation.
- Specific training: for example, apprenticeship training, on-the-job training, training courses specific to an occupation.
- Experience in another occupation: for example, supervisors usually require several years of experience in the occupation that they supervise.
- Licences, certificates or registration: for example, regulatory requirements to practice in a regulated profession, special licenses to operate certain kinds of vehicles.
- Other requirements: for example, athletic ability or artistic talent.

3. This heading is used by Statistics Canada.

4. This heading is used by Employment and Social Development Canada.

Some occupations have very definite employment requirements while for others, there is no consensus or a range of acceptable requirements exist. The following terminology is used to indicate the level of the requirement:

- “... is required” - to indicate a definite requirement;
- “... is usually required” - to indicate something that is usually required by the majority of employers, but not always required by all employers; and
- “... may be required” - to indicate something that may be required by some employers, but on a less frequent basis.

Employment requirements items to note:

- Some occupations are designated as regulated professions and trades. Regulations are subject to change and may vary across jurisdictions. The most reliable information on regulatory requirements for occupations is found on the websites of provincial regulatory organizations and licensing authorities.
- For reasons of brevity, the term college includes: community colleges, CÉGEPs, technical institutes, trade schools and agricultural colleges. Where relevant, in some provinces, it may also include private training organizations, music conservatories and other non-degree granting institutions.
- The Employment requirements section does not attempt to describe personal suitability requirements that are assessed by employers as part of the hiring process.

Additional information

This section appears in some unit group descriptions. It provides information on the following:

- progression to other occupations (such as supervisory or management positions) based on transferability of skills from acquired occupational experience;
- mobility patterns, such as inter- and intra-occupational transferability of skills (for example, identifying occupations that are part of internal lines of progression or specializations within a subject matter area);
- trends and forthcoming changes in the unit group’s employment requirements; and other information to clarify and define the unit group.

Coding guidelines to NOC 2021 Version 1.0

The NOC is designed to classify occupational information in the Canadian labour market in a standardized framework and a manageable, understandable and coherent system. Statistics Canada’s role is to provide occupational information for statistical surveys and data analysis.

When conducting a search to determine what code is best associated with a job title or occupation it is important to note:

- Even though the NOC contains more than 30,000 job titles in each of Canada’s official languages the list is not meant to be exhaustive. The list of examples does provide extensive coverage of commonly used and understood titles in the economy and of more specific titles found in many occupational areas.
- Occupations are identified and grouped primarily by:
 - ▶ the type of work performed based on, notably, the field of study required for entry into an occupation and the industry of employment, and;
 - ▶ considering the type of training, education and experience required for entry, as well as the complexities and responsibilities.

Both of which are determined by the main duties, tasks and responsibilities of the occupation and are key when trying to determine the best code for a job title. Consideration of these factors has proven to be effective in helping to narrow the search for a desired NOC code.

Selecting a NOC code

1. To find a NOC code associated with a job title start by using the search function and enter an occupational title or keywords related to the occupation. Searching the NOC will generate a list of possible occupations. If the initial search does not yield a matching occupational profile, sound practice is to broaden or narrow the search by using different related keywords.
2. In order to research how closely a NOC unit group code matches a given occupation, the details of the NOC profile in question are to be reviewed, such as the main duties and employment requirements to assess which one most accurately represents the occupation in question. Other information within the NOC profile should also be assessed such as example titles, additional information, and exclusions.
3. If the NOC unit group associated with the job title or occupation in question using the title job search is not found, the NOC structure can be used to narrow down the research. Apply knowledge of which sector of activity the occupation in question is associated to, e.g. health, natural sciences, trades, or transportation. That will limit the search to NOC unit groups found under one “broad occupational category”, which is represented by the first digit of the NOC code. Reduction of the scope based on the TEER requirements of the job or occupation can be beneficial. These requirements correspond to the second digit of the NOC code. Please note these may differ from personal educational levels.
4. Once the broad occupational category and the TEER associated with the job have been identified, a short list of relevant NOC sub-major groups (represented by the first three digits of the NOC code) and NOC minor groups (represented by the first four digits of the NOC code) will be available.
5. A review of the list of all the NOC unit groups found under the relevant NOC minor groups is required, prior to accessing the occupational description of each unit groups to find where the occupation has been classified.
6. To code an occupation, it is possible to use either the search tool or the classification structure.

Related Classifications

The classification of occupations does not stand alone but must be understood as being related to other classifications, such as the North American Industry Classification System (NAICS) and that of Class of Worker. Each of these classifications supplements the NOC 2021 Version 1.0 in presenting a rounded picture of the nature of a person’s job.

North American Industry Classification System (NAICS)

The industrial qualifier which may accompany the job title:

- a) Indicates the type of economic activity with which the job is usually associated. (It is important to note that the assignment of an industrial qualifier does not necessarily limit a job to that industry. These qualifiers are merely indicative of the possible areas of activity in which the job may be found).
- b) Permits the assignment of similar titles to different occupation groups where the duties vary between industries.
- c) Aids in defining the specific occupations and helps the coder grasp the underlying principles of this classification.

The industry in which the individual is employed is determined by the kind of economic activity of the establishment. The establishment is usually a factory, mine, farm, store, other place of business or an institution for which a number of basic production variables can be compiled.

It is important to note the conceptual differences between an industry classification and an occupation classification. An establishment can employ individuals performing completely different occupations, and these are classified to appropriate occupational groups, but the industrial classification of each individual employed in the establishment should be the same and is determined by the nature of the production process of the establishment. In other words, the nature of the factory, business or service in which the person is employed does

not determine the classification of the occupation, except to the extent that it enables the nature of the duties to be more clearly defined, but it does determine the classification of the establishment by industry.

Class of worker

Class of worker refers to an individual's employment relationship to the business in which they work, as employee or self-employed, including unpaid family workers, and thus provides another means of describing the work. The NOC 2021 Version 1.0 does not indicate the class of worker classification for each occupation since many occupations contain both jobs held by employees and jobs of self-employed individuals. The scope of what is an occupation has been outlined in the section "The underlying concepts".

Relationship between NOC and ISCO-08

The NOC is comparable to the International Standard Classification of Occupations (ISCO) published by the International Labour Organization (ILO). While the NOC was originally developed in Canada in the 1980s, ISCO was also being reviewed and updated to produce ISCO-88. Communication between the NOC and ISCO research teams led to similarities, such as a similar conceptual framework that includes the Skill Type and Skill Level dimensions. The similarities between the NOC and ISCO increased in later structural revision (ISCO-08 and NOC 2011) cycles. However, certain conceptual differences between the NOC 2021 Version 1.0 and ISCO-08 limit comparability. For instance, differences in the classification criteria and classification structure exist between NOC 2021 Version 1.0 and ISCO-08. Additionally, subsistence occupations included in ISCO are not part of the NOC. For countries and regions in which subsistence activities are virtually non-existent, the ILO affirms that such activities may be excluded without loss of international comparability.

The concordance between NOC 2011 and ISCO 2008 can be used for purposes of showing the relationship between NOC 2016 and ISCO 2008 since the structure is the same in both NOC 2011 and NOC 2016. A correspondence table is available between NOC 2016 V1.3 and NOC 2021 V1.0; a correspondence table between NOC 2021 V1.0 and ISCO-08 will be developed and published.

Summary of changes from NOC 2016 Version 1.3 to NOC 2021 Version 1.0

- Changes occurred at all levels of the NOC structure. Some items were revised while others were added, split, transferred or merged. A complete list of all changes detailed at the unit group level (the most detailed level of the NOC structure) is released as a separate correspondence file and is available at the following link: [NOC 2016 V1.3 - NOC 2021 V1.0](#).

Higher level structural changes

The following are some examples of higher level structural changes:

In the 2016 version of the NOC, "BOC 0 – Management" included all unit groups dedicated to managerial occupations. Under the 2021 NOC, management is identified in the employment requirements, via the TEER system, rather than as a "field of study and/or industry". The BOC 0 now only contains legislators and senior management occupations. Middle management occupations previously in BOC 0 have been redistributed into the remaining 9 BOCs based on the industry of employment. For example: 0211 - Engineering managers (NOC 2016 V1.3) has been moved to BOC 2 – Natural and applied sciences and related occupations, to unit group 20010 – Engineering managers (NOC 2021 V1.0).

Another example of a higher level structural change is NOC 2016 Version 1.3 minor group 227 - Transportation officers and controllers (and associated unit groups) was moved from BOC 2 - Natural and applied sciences and related occupations to BOC 7 - Trades, transport and equipment operators and related occupations as NOC 2021 Version 1.0 minor group 7260 - Transportation officers and controllers (and associated unit groups). This move better aligns the minor occupation group with the industry of employment.

As it is done for all standard statistical classifications, we provide a more detailed analysis of the changes at the lowest of the classification, which is the unit group level for the NOC.

Changes at the unit group level

The unit group level (5-digit) is the most detailed level of the NOC and it is used for the analysis of the changes in a more detailed manner. Some items were revised while others were added, split, transferred or merged. The [Generic Statistical Information Model \(GSIM\)](#) is used to identify the types of changes made to the classification: real changes and virtual changes. Real changes are those affecting the scope of the existing classification items or categories, whether or not accompanied by changes in the title, definition and/or the coding. Virtual changes are those made in coding, titles and/or definitions, while the meaning or scope of the classification item remains the same. **The “real changes” are the most important ones for analysis.**

Here are some examples of real changes at the unit group level:

Creation and deletion of new classification items

Creations occur when a new item emerges and is not part of any one or more existing item(s). A deletion, the mirror opposite of creation, occurs when an item expires and no part of it proceeds as part of one or more existing item(s). **No new classification items (unit groups) were created to the NOC 2021 Version 1.0, and no NOC 2016 V1.3 classification items were deleted according to the deletion and creation definitions found in GSIM.**

Combination of classification items

Combinations consist of mergers and take-overs among classification items. There were 4 mergers and 8 take-overs of NOC 2016 Version 1.3 unit groups. Essentially, unit groups were combined into an emerging unit group (merger) or an existing unit group (take-over) with the intent to re-arrange the classification of occupational groupings to reflect the current and emerging labour market.

Merger examples

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
9222 Supervisors, electronics manufacturing	Merger	92021 Supervisors, electronics and electrical products manufacturing	9222 and 9223 expired and all parts of both merged into emerging item 92021.
9223 Supervisors, electrical products manufacturing	Merger		

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
9432 Pulp mill machine operators	Merger	94121 Pulp mill, papermaking and finishing machine operators	9432 and 9433 expired and all parts of both merged into emerging item 94121.
9433 Papermaking and finishing machine operators	Merger		

Take-over examples

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
7247 Cable television service and maintenance technicians	Take-over	72204 Telecommunications line and cable installers and repairers	7247 expires and part proceeds between 72204 and 72205.
	Take-over	72205 Telecommunications equipment installation and cable television service technicians	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
9531 Boat assemblers and inspectors	Take-over	94219 Other products assemblers, finishers and inspectors	9531 expired and all taken-over as part of 94219.

Decomposition of classification items

27 classification items are a result of either a breakdown or a split-off: 1 breakdown and 26 split-offs. Unit groups either expired and were distributed over emerging items (breakdown) or partially continued with part assigned (split-off) to emerging unit group with the intent to better align occupational grouping based on the TEER classification criteria and reflect the current and emerging labour market. Below are examples of decomposition changes related to the addition of more detailed classification items.

Breakdown examples

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
2263 Inspectors in public and environmental health and occupational health and safety	Breakdown	21120 Public and environmental health and safety professionals	2263 expires, while its denotation is distributed over emerging items 21120 and 22232.
	Breakdown	22232 Occupational health and safety specialists	

Split-off examples

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
0431 Commissioned police officers	Split-off	40040 Commissioned police officers and related occupations in public protection services	0431 continues as 40040 and part split-off to emerging item 41310.
	Split-off	41310 Police investigators and other investigative occupations	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
1228 Employment insurance, immigration, border services and revenue officers	Split-off	12104 Employment insurance and revenue officers	1228 continues as 43203 and part split-off to emerging item 12104.
	Split-off	43203 Border services, customs, and immigration officers	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
2171 Information systems analysts and consultants	Split-off	21211 Data scientists	2171 continues as 21222 and part split-off to emerging items 21211, 21220, 21221 and 21233.
	Split-off	21220 Cybersecurity specialists	
	Split-off	21221 Business systems specialists	
	Split-off	21222 Information systems specialists	
	Split-off	21233 Web designers	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
2172 Database analysts and data administrators	Split-off	21211 Data scientists	2172 continues as 21223 and part split-off to emerging item 21211.
	Split-off	21223 Database analysts and data administrators	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
2173 Software engineers and designers	Split-off	21211 Data scientists	2173 continues as 21231 and part split off to emerging item 21211.
	Split-off	21231 Software engineers and designers	

There were 7 decomposition instances where part of a unit group continued and part split-off to an emerging unit group and part transferred to an existing unit group. Below is an example of this.

Split off/Transfer Example

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
3124 Allied primary health practitioners	Split-off	31302 Nurse practitioners	3124 continues as 31303 and part transferred to 32103 and part split off to emerging item 31302.
	Split-off / Transfer	31303 Physician assistants, midwives and allied health professionals	
	Transfer	32103 Respiratory therapists, clinical perfusionists and cardiopulmonary technologists	

Transfer of classification items or their parts

There were 42 instances where part of a unit group continued and part of it was transferred to one or more existing unit groups with the intent to better align with the TEER classification criteria and in some cases better realign occupational groupings.

Transfer examples

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
1253 Records management technicians	Transfer	12111 Health information management occupations	1253 continues as 12112 and part transferred to 12111.
	Transfer	12112 Records management technicians	

NOC 2016 V1.3 Code(s)	REAL CHANGE GSIM NAME	NOC 2021 V1.0 Code(s)	Description of Change
1525 Dispatchers	Transfer	13201 Production and transportation logistics coordinators	1525 continues as 14404 and part transferred to 13201.
	Transfer	14404 Dispatchers	

Virtual Changes

Essentially, all items of the classification were affected by virtual changes. For example, all unit groups with 1 to 1 links were still affected by code changes as a result of the TEER system. At the most detailed level of the classification (unit groups) more than 470 unit groups were modified where changes were made to titles and definitions. For example, some titles were modified to better describe the occupational groupings based on content revisions. These types of changes are important for clarification and making necessary updates or corrections.

Finally, all changes made (real or virtual) can potentially have an impact on the content of the classification file, which at the most detailed level contains leading statements, illustrative and example job titles, exclusions, inclusions, main duties, employment requirements and additional information. More than 3500 content items have been either added, deleted or edited and more than 1000 job titles have been added, deleted or edited in this NOC 2021 Version 1.0. These two components of the classification support coding of occupations and fosters fluidity when reading or using the classification.

Net Changes in the NOC 2021 Version 1.0 relative to the NOC 2016 Version 1.3

Level	NOC 2021 V1.0	NOC 2016 V1.3	Net Changes
Broad Category	10	10	0
Major Group	45	40	+5
Sub-major Group	89*	N/A	+89
Minor Group	162	140	+22
Unit Group	516**	500	+16

* New to the NOC structure in 2021.

** 7 unit groups were eliminated and 23 new unit groups were added, resulting in a net difference of 16.

More information on the NOC 2021 Version 1.0

For questions related to the National Occupational Classification, please send an email to: statcan.csd-standards-occupations-cnsd-normes-professions.statcan@statcan.gc.ca.

For information on the National Occupational Classification (NOC) and its use for programs and services such as, immigrating to Canada, labour market information, job searches and working in Canada, please contact [Employment and Social Development Canada \(ESDC\)](#).

Classification structure

0 Legislative and senior management occupations

00 Legislative and senior managers

000 Legislative and senior managers

0001 Legislative and senior managers

00010 Legislators

00011 Senior government managers and officials

00012 Senior managers - financial, communications and other business services

00013 Senior managers - health, education, social and community services and membership organizations

00014 Senior managers - trade, broadcasting and other services

00015 Senior managers - construction, transportation, production and utilities

1 Business, finance and administration occupations

10 Specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting)

100 Specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting)

1001 Administrative services managers

10010 Financial managers

10011 Human resources managers

10012 Purchasing managers

10019 Other administrative services managers

1002 Managers in financial and business services

10020 Insurance, real estate and financial brokerage managers

10021 Banking, credit and other investment managers

10022 Advertising, marketing and public relations managers

10029 Other business services managers

1003 Managers in communication (except broadcasting)

10030 Telecommunication carriers managers

11 Professional occupations in finance and business

111 Professional occupations in finance

1110 Auditors, accountants and investment professionals

11100 Financial auditors and accountants

11101 Financial and investment analysts

11102 Financial advisors

11103 Securities agents, investment dealers and brokers

11109 Other financial officers

112 Professional occupations in business

1120 Human resources and business service professionals

11200 Human resources professionals

11201 Professional occupations in business management consulting

11202 Professional occupations in advertising, marketing and public relations

12 Administrative and financial supervisors and specialized administrative occupations

120 Administrative and financial supervisors

1201 Administrative and financial supervisors

12010 Supervisors, general office and administrative support workers

12011 Supervisors, finance and insurance office workers

12012 Supervisors, library, correspondence and related information workers

12013 Supervisors, supply chain, tracking and scheduling coordination occupations

121 Specialized administrative occupations

1210 Administrative and regulatory occupations

12100 Executive assistants

12101 Human resources and recruitment officers

12102 Procurement and purchasing agents and officers

12103 Conference and event planners

12104 Employment insurance and revenue officers

1211 Court reporters, transcriptionists, records management technicians and statistical officers

12110 Court reporters, medical transcriptionists and related occupations

12111 Health information management occupations

12112 Records management technicians

12113 Statistical officers and related research support occupations

122 Accounting, insurance and related business administrative occupations

1220 Accounting, insurance and related business administrative occupations

12200 Accounting technicians and bookkeepers

12201 Insurance adjusters and claims examiners

12202 Insurance underwriters

12203 Assessors, business valuers and appraisers

13 Administrative occupations and transportation logistics occupations

131 Administrative occupations

1310 Administrative, property and payroll officers

13100 Administrative officers

13101 Property administrators

13102 Payroll administrators

1311 Office administrative assistants - general, legal and medical

13110 Administrative assistants

13111 Legal administrative assistants

13112 Medical administrative assistants

132 Transportation and production logistics coordinators and customs brokers and related broker occupations

1320 Transportation and production logistics coordinators and customs brokers and related broker occupations

13200 Customs, ship and other brokers

13201 Production and transportation logistics coordinators

14 Administrative and financial support and supply chain logistics occupations

141 Office, court, and data support occupations

1410 Office support and court services occupations

14100 General office support workers

14101 Receptionists

14102 Personnel clerks

14103 Court clerks and related court services occupations

1411 Survey, statistical and data entry occupations

14110 Survey interviewers and statistical clerks

14111 Data entry clerks

14112 Desktop publishing operators and related occupations

142 Financial, insurance and related administrative support workers

1420 Financial, insurance and related administrative support workers

14200 Accounting and related clerks

14201 Banking, insurance and other financial clerks

14202 Collection clerks

143 Library, correspondence and other clerks

1430 Library, correspondence and other clerks

14300 Library assistants and clerks

14301 Correspondence, publication and regulatory clerks

144 Supply chain logistics, tracking and scheduling coordination occupations

1440 Supply chain logistics, tracking and scheduling coordination occupations

14400 Shippers and receivers

14401 Storekeepers and partspersons

14402 Production logistics workers

14403 Purchasing and inventory control workers

14404 Dispatchers

14405 Transportation route and crew schedulers

2 Natural and applied sciences and related occupations

20 Specialized middle management occupations in engineering, architecture, science and information systems

200 Specialized middle management occupations in engineering, architecture, science and information systems

2001 Managers in engineering, architecture, science and information systems

20010 Engineering managers

20011 Architecture and science managers

20012 Computer and information systems managers

21 Professional occupations in natural and applied sciences

211 Professional occupations in natural sciences

2110 Physical science professionals

21100 Physicists and astronomers

21101 Chemists

21102 Geoscientists and oceanographers

21103 Meteorologists and climatologists

21109 Other professional occupations in physical sciences

2111 Life science professionals

21110 Biologists and related scientists

21111 Forestry professionals

21112 Agricultural representatives, consultants and specialists

2112 Public and environmental health and safety professionals

21120 Public and environmental health and safety professionals

212 Professional occupations in applied sciences (except engineering)

2120 Architects, urban planners and land surveyors

21200 Architects

21201 Landscape architects

21202 Urban and land use planners

21203 Land surveyors

2121 Mathematicians, statisticians, actuaries and data scientists

21210 Mathematicians, statisticians and actuaries

21211 Data scientists

2122 Computer and information systems professionals

21220 Cybersecurity specialists

21221 Business systems specialists

21222 Information systems specialists

21223 Database analysts and data administrators

2123 Computer, software and Web designers and developers

21230 Computer systems developers and programmers

21231 Software engineers and designers

21232 Software developers and programmers

21233 Web designers

21234 Web developers and programmers

213 Professional occupations in engineering

2130 Civil and mechanical engineers

21300 Civil engineers

21301 Mechanical engineers

2131 Electrical, electronics and computer engineers

21310 Electrical and electronics engineers

21311 Computer engineers (except software engineers and designers)

2132 Manufacturing and processing engineers

21320 Chemical engineers

21321 Industrial and manufacturing engineers

21322 Metallurgical and materials engineers

2133 Natural resources engineers

21330 Mining engineers

21331 Geological engineers

21332 Petroleum engineers

2139 Other engineers

21390 Aerospace engineers

21399 Other professional engineers

22 Technical occupations related to natural and applied sciences

221 Technical occupations related to natural sciences

2210 Technical occupations in physical sciences

22100 Chemical technologists and technicians

22101 Geological and mineral technologists and technicians

2211 Technical occupations in life sciences

22110 Biological technologists and technicians

22111 Agricultural and fish products inspectors

22112 Forestry technologists and technicians

22113 Conservation and fishery officers

22114 Landscape and horticulture technicians and specialists

222 Technical occupations related to applied sciences (except engineering)

2221 Technical occupations in architecture, drafting, surveying, geomatics and meteorology

- 22210 Architectural technologists and technicians
- 22211 Industrial designers
- 22212 Drafting technologists and technicians
- 22213 Land survey technologists and technicians
- 22214 Technical occupations in geomatics and meteorology

2222 Technical occupations in computer and information systems

- 22220 Computer network and web technicians
- 22221 User support technicians
- 22222 Information systems testing technicians

2223 Technical inspectors and regulatory officers

- 22230 Non-destructive testers and inspectors
- 22231 Engineering inspectors and regulatory officers
- 22232 Occupational health and safety specialists
- 22233 Construction inspectors

223 Technical occupations related to engineering**2230 Technical occupations in civil, mechanical and industrial engineering**

- 22300 Civil engineering technologists and technicians
- 22301 Mechanical engineering technologists and technicians
- 22302 Industrial engineering and manufacturing technologists and technicians
- 22303 Construction estimators

2231 Technical occupations in electronics and electrical engineering

- 22310 Electrical and electronics engineering technologists and technicians
- 22311 Electronic service technicians (household and business equipment)
- 22312 Industrial instrument technicians and mechanics
- 22313 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors

3 Health occupations**30 Specialized middle management occupations in health care****300 Specialized middle management occupations in health care****3001 Managers in health care**

- 30010 Managers in health care

31 Professional occupations in health**311 Health treating and consultation services professionals****3110 Physicians and veterinarians**

- 31100 Specialists in clinical and laboratory medicine
- 31101 Specialists in surgery
- 31102 General practitioners and family physicians
- 31103 Veterinarians

3111 Dentists, optometrists and audiologists

- 31110 Dentists
- 31111 Optometrists
- 31112 Audiologists and speech-language pathologists

3112 Pharmacists and dietitians

- 31120 Pharmacists
- 31121 Dietitians and nutritionists

312 Therapy and assessment professionals

3120 Therapy and assessment professionals

- 31200 Psychologists
- 31201 Chiropractors
- 31202 Physiotherapists
- 31203 Occupational therapists
- 31204 Kinesiologists and other professional occupations in therapy and assessment
- 31209 Other professional occupations in health diagnosing and treating

313 Nursing and allied health professionals

3130 Nursing and allied health professionals

- 31300 Nursing coordinators and supervisors
- 31301 Registered nurses and registered psychiatric nurses
- 31302 Nurse practitioners
- 31303 Physician assistants, midwives and allied health professionals

32 Technical occupations in health

321 Technical occupations in health (except practitioners of natural healing)

3210 Technical occupations in therapy and assessment

- 32100 Opticians
- 32101 Licensed practical nurses
- 32102 Paramedical occupations
- 32103 Respiratory therapists, clinical perfusionists and cardiopulmonary technologists
- 32104 Animal health technologists and veterinary technicians
- 32109 Other technical occupations in therapy and assessment

3211 Technical occupations in dental health care

- 32110 Denturists
- 32111 Dental hygienists and dental therapists
- 32112 Dental technologists and technicians

3212 Medical technologists and technicians

- 32120 Medical laboratory technologists
- 32121 Medical radiation technologists
- 32122 Medical sonographers
- 32123 Cardiology technologists and electrophysiological diagnostic technologists
- 32124 Pharmacy technicians
- 32129 Other medical technologists and technicians

322 Practitioners of natural healing

3220 Practitioners of natural healing

- 32200 Traditional Chinese medicine practitioners and acupuncturists
- 32201 Massage therapists
- 32209 Other practitioners of natural healing

33 Assisting occupations in support of health services

331 Assisting occupations in support of health services

3310 Assisting occupations in support of health services

- 33100 Dental assistants and dental laboratory assistants
- 33101 Medical laboratory assistants and related technical occupations
- 33102 Nurse aides, orderlies and patient service associates

33103 Pharmacy technical assistants and pharmacy assistants

33109 Other assisting occupations in support of health services

4 Occupations in education, law and social, community and government services

40 Managers in public administration, in education and social and community services and in public protection services

400 Managers in public administration, in education and social and community services and in public protection services

4001 Managers in public administration

40010 Government managers - health and social policy development and program administration

40011 Government managers - economic analysis, policy development and program administration

40012 Government managers - education policy development and program administration

40019 Other managers in public administration

4002 Managers in education

40020 Administrators - post-secondary education and vocational training

40021 School principals and administrators of elementary and secondary education

4003 Managers in social, community and correctional services

40030 Managers in social, community and correctional services

4004 Managers in public protection services

40040 Commissioned police officers and related occupations in public protection services

40041 Fire chiefs and senior firefighting officers

40042 Commissioned officers of the Canadian Armed Forces

41 Professional occupations in law, education, social, community and government services

411 Professional occupations in law

4110 Judges, lawyers and Quebec notaries

41100 Judges

41101 Lawyers and Quebec notaries

412 Professional occupations in education services

4120 University professors and post-secondary assistants

41200 University professors and lecturers

41201 Post-secondary teaching and research assistants

4121 College and other vocational instructors

41210 College and other vocational instructors

4122 Secondary, elementary and kindergarten school teachers

41220 Secondary school teachers

41221 Elementary school and kindergarten teachers

413 Professional occupations in social and community services

4130 Social and community service professionals

41300 Social workers

41301 Therapists in counselling and related specialized therapies

41302 Religious leaders

4131 Police investigators and probation officers

41310 Police investigators and other investigative occupations

41311 Probation and parole officers

4132 Educational and employment counsellors

41320 Educational counsellors

41321 Career development practitioners and career counsellors (except education)

414 Professional occupations in government services

4140 Policy and program researchers, consultants and officers

- 41400 Natural and applied science policy researchers, consultants and program officers
- 41401 Economists and economic policy researchers and analysts
- 41402 Business development officers and market researchers and analysts
- 41403 Social policy researchers, consultants and program officers
- 41404 Health policy researchers, consultants and program officers
- 41405 Education policy researchers, consultants and program officers
- 41406 Recreation, sports and fitness policy researchers, consultants and program officers
- 41407 Program officers unique to government
- 41409 Other professional occupations in social science

42 Front-line public protection services and paraprofessional occupations in legal, social, community, education services

421 Occupations in front-line public protection services

4210 Occupations in front-line public protection services

- 42100 Police officers (except commissioned)
- 42101 Firefighters
- 42102 Specialized members of the Canadian Armed Forces

422 Paraprofessional occupations in legal, social, community and education services

4220 Paraprofessional occupations in legal, social, community and education services

- 42200 Paralegals and related occupations
- 42201 Social and community service workers
- 42202 Early childhood educators and assistants
- 42203 Instructors of persons with disabilities
- 42204 Religion workers

43 Assisting occupations in education and in legal and public protection

431 Assisting occupations in educational

4310 Assisting occupations in education

- 43100 Elementary and secondary school teacher assistants
- 43109 Other instructors

432 Assisting occupations in legal and public protection

4320 Assisting occupations in legal and public protection

- 43200 Sheriffs and bailiffs
- 43201 Correctional service officers
- 43202 By-law enforcement and other regulatory officers
- 43203 Border services, customs, and immigration officers
- 43204 Operations members of the Canadian Armed Forces

44 Care providers and legal and public protection support occupations

441 Home care provider occupations

4410 Home care provider occupations

- 44100 Home child care providers
- 44101 Home support workers, caregivers and related occupations

442 Primary combat members of the Canadian Armed Forces

4420 Primary combat members of the Canadian Armed Forces

- 44200 Primary combat members of the Canadian Armed Forces

45 Student monitors, crossing guards and related occupations**451 Student monitors, crossing guards and related occupations****4510 Student monitors, crossing guards and related occupations**

45100 Student monitors, crossing guards and related occupations

5 Occupations in art, culture, recreation and sport**50 Specialized middle management occupations in art, culture, recreation and sport****500 Specialized middle management occupations in art, culture, recreation and sport****5001 Managers in art, culture, recreation and sport**

50010 Library, archive, museum and art gallery managers

50011 Managers - publishing, motion pictures, broadcasting and performing arts

50012 Recreation, sports and fitness program and service directors

51 Professional occupations in art and culture**511 Professional occupations in art and culture****5110 Librarians, archivists, conservators and curators**

51100 Librarians

51101 Conservators and curators

51102 Archivists

5111 Writing, translating and related communications professionals

51110 Editors

51111 Authors and writers (except technical)

51112 Technical writers

51113 Journalists

51114 Translators, terminologists and interpreters

5112 Creative and performing artists

51120 Producers, directors, choreographers and related occupations

51121 Conductors, composers and arrangers

51122 Musicians and singers

52 Technical occupations in art, culture and sport**521 Technical occupations in art and culture****5210 Technical occupations in libraries and public archives**

52100 Library and public archive technicians

5211 Technical occupations in motion pictures, broadcasting and the performing arts

52110 Film and video camera operators

52111 Graphic arts technicians

52112 Broadcast technicians

52113 Audio and video recording technicians

52114 Announcers and other broadcasters

52119 Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts

5212 Graphic and interior designers

52120 Graphic designers and illustrators

52121 Interior designers and interior decorators

53 Occupations in art, culture and sport**531 Occupations in art and culture****5310 Occupations related to museums and art galleries**

53100 Registrars, restorers, interpreters and other occupations related to museum and art galleries

5311 Photographers and support occupations in arts and culture

53110 Photographers

53111 Motion pictures, broadcasting, photography and performing arts assistants and operators

5312 Occupations in creative and performing art

53120 Dancers

53121 Actors, comedians and circus performers

53122 Painters, sculptors and other visual artists

53123 Theatre, fashion, exhibit and other creative designers

53124 Artisans and craftspersons

53125 Patternmakers - textile, leather and fur products

532 Occupations in sports

5320 Athletes, coaches, referees and related occupations

53200 Athletes

53201 Coaches

53202 Sports officials and referees

54 Support occupations in sport

541 Support occupations in sport

5410 Program leaders and instructors in recreation, sport and fitness

54100 Program leaders and instructors in recreation, sport and fitness

55 Support occupations in art and culture

551 Support occupations in art and culture

5510 Support occupations in art and culture

55109 Other performers

6 Sales and service occupations

60 Middle management occupations in retail and wholesale trade and customer services

600 Middle management occupations in retail and wholesale trade and customer services

6001 Corporate sales managers

60010 Corporate sales managers

6002 Retail and wholesale trade managers

60020 Retail and wholesale trade managers

6003 Managers in food service and accommodation

60030 Restaurant and food service managers

60031 Accommodation service managers

6004 Managers in customer and personal services

60040 Managers in customer and personal services

62 Retail sales and service supervisors and specialized occupations in sales and services

620 Retail sales and service supervisors

6201 Retail sales supervisors

62010 Retail sales supervisors

6202 Service supervisors

62020 Food service supervisors

62021 Executive housekeepers

62022 Accommodation, travel, tourism and related services supervisors

62023 Customer and information services supervisors

62024 Cleaning supervisors

62029 Other services supervisors

621 Specialized sales occupations

6210 Technical sales specialists in wholesale trade and retail and wholesale buyers

62100 Technical sales specialists - wholesale trade

62101 Retail and wholesale buyers

622 Specialized services occupations

6220 Specialized occupations in services

62200 Chefs

62201 Funeral directors and embalmers

62202 Jewellers, jewellery and watch repairers and related occupations

63 Occupations in sales and services

631 Occupations in sales

6310 Insurance, real estate and financial sales occupations

63100 Insurance agents and brokers

63101 Real estate agents and salespersons

63102 Financial sales representatives

632 Occupations in services

6320 Cooks, butchers and bakers

63200 Cooks

63201 Butchers - retail and wholesale

63202 Bakers

6321 Hairstylists and estheticians

63210 Hairstylists and barbers

63211 Estheticians, electrologists and related occupations

6322 Shoe repairers, shoemakers and upholsterers

63220 Shoe repairers and shoemakers

63221 Upholsterers

64 Sales and service representatives and other customer and personal services occupations

641 Retail salespersons and non-technical wholesale trade sales and account representatives

6410 Retail salespersons and non-technical wholesale trade sales and account representatives

64100 Retail salespersons and visual merchandisers

64101 Sales and account representatives - wholesale trade (non-technical)

642 Occupations in personal service

6420 Occupations in personal service

64200 Tailors, dressmakers, furriers and milliners

64201 Image, social and other personal consultants

643 Occupations in food, accommodation and tourism

6430 Occupations in food and beverage service

64300 Maitres d'hôtel and hosts/hostesses

64301 Bartenders

6431 Occupations in travel and accommodation

64310 Travel counsellors

64311 Purser and flight attendants

64312 Airline ticket and service agents

64313 Ground and water transport ticket agents, cargo service representatives and related clerks

64314 Hotel front desk clerks

6432 Tourism and amusement services occupations

64320 Tour and travel guides

64321 Casino workers

64322 Outdoor sport and recreational guides

644 Occupations in customer, information and protective services

6440 Customer and information services representatives

64400 Customer services representatives - financial institutions

64401 Postal services representatives

64409 Other customer and information services representatives

6441 Security guards and related security service occupations

64410 Security guards and related security service occupations

65 Sales and service support occupations

651 Sales support occupations

6510 Cashiers and other sales support occupations

65100 Cashiers

65101 Service station attendants

65102 Store shelf stockers, clerks and order fillers

65109 Other sales related occupations

652 Support occupations in food, accommodation and tourism

6520 Food support occupations

65200 Food and beverage servers

65201 Food counter attendants, kitchen helpers and related support occupations

65202 Meat cutters and fishmongers - retail and wholesale

6521 Support occupations in accommodation, travel, tourism and amusement services

65210 Support occupations in accommodation, travel and facilities set-up services

65211 Operators and attendants in amusement, recreation and sport

6522 Support occupations in personal services

65220 Pet groomers and animal care workers

65229 Other support occupations in personal services

653 Support occupations in cleaning and related services

6531 Cleaners

65310 Light duty cleaners

65311 Specialized cleaners

65312 Janitors, caretakers and heavy-duty cleaners

6532 Service support and related occupations

65320 Dry cleaning, laundry and related occupations

65329 Other service support occupations

7 Trades, transport and equipment operators and related occupations

70 Middle management occupations in trades and transportation

700 Middle management occupations in trades and transportation

7001 Managers in construction and facility operation and maintenance

70010 Construction managers

70011 Home building and renovation managers

70012 Facility operation and maintenance managers

7002 Managers in transportation and postal and courier services

70020 Managers in transportation

70021 Postal and courier services managers

72 Technical trades and transportation officers and controllers

720 Technical trades contractors and supervisors

7201 Contractors and supervisors, technical industrial, electrical and construction trades and related workers

72010 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations

72011 Contractors and supervisors, electrical trades and telecommunications occupations

72012 Contractors and supervisors, pipefitting trades

72013 Contractors and supervisors, carpentry trades

72014 Contractors and supervisors, other construction trades, installers, repairers and servicers

7202 Contractors and supervisors, technical maintenance trades and heavy equipment and transport operators

72020 Contractors and supervisors, mechanic trades

72021 Contractors and supervisors, heavy equipment operator crews

72022 Supervisors, printing and related occupations

72023 Supervisors, railway transport operations

72024 Supervisors, motor transport and other ground transit operators

72025 Supervisors, mail and message distribution occupations

721 Technical industrial trades

7210 Machining, metal forming, shaping and erecting trades

72100 Machinists and machining and tooling inspectors

72101 Tool and die makers

72102 Sheet metal workers

72103 Boilermakers

72104 Structural metal and platework fabricators and fitters

72105 Ironworkers

72106 Welders and related machine operators

722 Technical electrical trades

7220 Technical electrical trades and electrical power line and telecommunications workers

72200 Electricians (except industrial and power system)

72201 Industrial electricians

72202 Power system electricians

72203 Electrical power line and cable workers

72204 Telecommunications line and cable installers and repairers

72205 Telecommunications equipment installation and cable television service technicians

723 Technical construction trades

7230 Plumbers, pipefitters and gas fitters

72300 Plumbers

72301 Steamfitters, pipefitters and sprinkler system installers

72302 Gas fitters

7231 Carpenters and cabinetmakers

72310 Carpenters

72311 Cabinetmakers

7232 Bricklayers and insulators

72320 Bricklayers

72321 Insulators

724 Technical maintenance trades

7240 Machinery and transportation equipment mechanics (except motor vehicles)

72400 Construction millwrights and industrial mechanics

72401 Heavy-duty equipment mechanics

72402 Heating, refrigeration and air conditioning mechanics

72403 Railway carmen/women

72404 Aircraft mechanics and aircraft inspectors

72405 Machine fitters

72406 Elevator constructors and mechanics

7241 Automotive service technicians

72410 Automotive service technicians, truck and bus mechanics and mechanical repairers

72411 Auto body collision, refinishing and glass technicians and damage repair estimators

7242 Small engine and equipment mechanics and related repairers (including electrical components)

72420 Oil and solid fuel heating mechanics

72421 Appliance servicers and repairers

72422 Electrical mechanics

72423 Motorcycle, all-terrain vehicle and other related mechanics

72429 Other small engine and small equipment repairers

725 Technical equipment operation trades

7250 Crane operators and water well drillers

72500 Crane operators

72501 Water well drillers

726 Transportation officers and controllers

7260 Transportation officers and controllers

72600 Air pilots, flight engineers and flying instructors

72601 Air traffic controllers and related occupations

72602 Deck officers, water transport

72603 Engineer officers, water transport

72604 Railway traffic controllers and marine traffic regulators

729 Other technical trades

7299 Other technical trades

72999 Other technical trades and related occupations

73 General trades

731 General construction trades

7310 Concrete finishers, tilesetters and plasterers

73100 Concrete finishers

73101 Tilesetters

73102 Plasterers, drywall installers and finishers and lathers

7311 Roofers, glaziers, painters, decorators and floor covering installers

73110 Roofers and shinglers

73111 Glaziers

73112 Painters and decorators (except interior decorators)

73113 Floor covering installers

732 Building maintenance installers, servicers and repairers

7320 Building maintenance installers, servicers and repairers

73200 Residential and commercial installers and servicers

73201 General building maintenance workers and building superintendents

73202 Pest controllers and fumigators

73209 Other repairers and servicers

733 Transportation occupations

7330 Transport truck and transit drivers

73300 Transport truck drivers

73301 Bus drivers, subway operators and other transit operators

7331 Train crew operating occupations

73310 Railway and yard locomotive engineers

73311 Railway conductors and brakemen/women

734 Operators, drillers and blasters

7340 Operators, drillers and blasters

73400 Heavy equipment operators

73401 Printing press operators

73402 Drillers and blasters - surface mining, quarrying and construction

74 Mail and message distribution, other transport equipment operators and related maintenance workers

741 Mail and message distribution occupations

7410 Mail and message distribution occupations

74100 Mail and parcel sorters and related occupations

74101 Letter carriers

74102 Couriers and messengers

742 Transport equipment operators, utility maintenance and related workers

7420 Transport equipment operators, utility maintenance and related maintenance workers

74200 Railway yard and track maintenance workers

74201 Water transport deck and engine room crew

74202 Air transport ramp attendants

74203 Automotive and heavy truck and equipment parts installers and servicers

74204 Utility maintenance workers

74205 Public works maintenance equipment operators and related workers

75 Helpers and labourers and other transport drivers, operators and labourers

751 Helpers and labourers

7510 Longshore workers and material handlers

75100 Longshore workers

75101 Material handlers

7511 Trades helpers and labourers

75110 Construction trades helpers and labourers

75119 Other trades helpers and labourers

752 Transport drivers, operators and labourers

7520 Taxi, personal service and delivery service drivers

75200 Taxi and limousine drivers and chauffeurs

75201 Delivery service drivers and door-to-door distributors

7521 Water and rail transport operators and labourers and related occupations

75210 Boat and cable ferry operators and related occupations

75211 Railway and motor transport labourers

75212 Public works and maintenance labourers

8 Natural resources, agriculture and related production occupations

80 Middle management occupations in production and agriculture

800 Middle management occupations in production and agriculture

8001 Managers in natural resources production and fishing

80010 Managers in natural resources production and fishing

8002 Managers in agriculture, horticulture and aquaculture

80020 Managers in agriculture

80021 Managers in horticulture

80022 Managers in aquaculture

82 Supervisors in natural resources, agriculture and related production

820 Supervisors in natural resources, agriculture and related production

8201 Supervisors, logging and forestry

82010 Supervisors, logging and forestry

8202 Contractors and supervisors, mining, oil and gas

82020 Supervisors, mining and quarrying

82021 Contractors and supervisors, oil and gas drilling and services

8203 Contractors and supervisors, agriculture, horticulture and related operations and services

82030 Agricultural service contractors and farm supervisors

82031 Contractors and supervisors, landscaping, grounds maintenance and horticulture services

83 Occupations in natural resources and related production

831 Occupations in natural resources and fisheries

8310 Underground miners, oil and gas drillers and related occupations

83100 Underground production and development miners

83101 Oil and gas well drillers, servicers, testers and related workers

8311 Logging machinery operators

83110 Logging machinery operators

8312 Fishing vessel masters and fishermen/women

83120 Fishing masters and officers

83121 Fishermen/women

84 Workers in natural resources, agriculture and related production

841 Workers in natural resources and fisheries

8410 Mine service workers and operators in oil and gas drilling

84100 Underground mine service and support workers

84101 Oil and gas well drilling and related workers and services operators

8411 Logging and forestry workers

84110 Chain saw and skidder operators

84111 Silviculture and forestry workers

8412 Workers in agriculture and fishing occupations

84120 Specialized livestock workers and farm machinery operators

84121 Fishing vessel deckhands

85 Harvesting, landscaping and natural resources labourers**851 Harvesting, landscaping and natural resources labourers****8510 Agriculture, horticulture and harvesting labourers and related occupations**

85100 Livestock labourers

85101 Harvesting labourers

85102 Aquaculture and marine harvest labourers

85103 Nursery and greenhouse labourers

85104 Trappers and hunters

8511 Mine and oil and gas drilling, services and related labourers

85110 Mine labourers

85111 Oil and gas drilling, servicing and related labourers

8512 Logging, forestry, landscaping and other related labourers

85120 Logging and forestry labourers

85121 Landscaping and grounds maintenance labourers

9 Occupations in manufacturing and utilities**90 Middle management occupations in manufacturing and utilities****900 Middle management occupations in manufacturing and utilities****9001 Managers in manufacturing and utilities**

90010 Manufacturing managers

90011 Utilities managers

92 Processing, manufacturing and utilities supervisors and utilities operators and controllers**920 Supervisors, processing, manufacturing, assembly and fabrication occupations****9201 Supervisors, processing and manufacturing occupations**

92010 Supervisors, mineral and metal processing

92011 Supervisors, petroleum, gas and chemical processing and utilities

92012 Supervisors, food and beverage processing

92013 Supervisors, plastic and rubber products manufacturing

92014 Supervisors, forest products processing

92015 Supervisors, textile, fabric, fur and leather products processing and manufacturing

9202 Supervisors, assembly and fabrication

92020 Supervisors, motor vehicle assembling

92021 Supervisors, electronics and electrical products manufacturing

92022 Supervisors, furniture and fixtures manufacturing

92023 Supervisors, other mechanical and metal products manufacturing

92024 Supervisors, other products manufacturing and assembly

921 Utilities equipment operators and controllers**9210 Utilities equipment operators and controllers**

92100 Power engineers and power systems operators

92101 Water and waste treatment plant operators

93 Central control and process operators and aircraft assembly assemblers and inspectors**931 Central control and process operators in processing and manufacturing****9310 Central control and process operators in processing and manufacturing**

93100 Central control and process operators, mineral and metal processing

93101 Central control and process operators, petroleum, gas and chemical processing

93102 Pulping, papermaking and coating control operators

932 Aircraft assemblers and aircraft assembly inspectors

9320 Aircraft assemblers and aircraft assembly inspectors

93200 Aircraft assemblers and aircraft assembly inspectors

94 Machine operators, assemblers and inspectors in processing, manufacturing and printing

941 Processing and manufacturing machine operators and related production workers

9410 Machine operators and related workers in mineral and metal products processing and manufacturing

94100 Machine operators, mineral and metal processing

94101 Foundry workers

94102 Glass forming and finishing machine operators and glass cutters

94103 Concrete, clay and stone forming operators

94104 Inspectors and testers, mineral and metal processing

94105 Metalworking and forging machine operators

94106 Machining tool operators

94107 Machine operators of other metal products

9411 Machine operators and related workers in chemical, plastic and rubber processing

94110 Chemical plant machine operators

94111 Plastics processing machine operators

94112 Rubber processing machine operators and related workers

9412 Machine operators and related workers in pulp and paper production and wood processing and manufacturing

94120 Sawmill machine operators

94121 Pulp mill, papermaking and finishing machine operators

94122 Paper converting machine operators

94123 Lumber graders and other wood processing inspectors and graders

94124 Woodworking machine operators

94129 Other wood processing machine operators

9413 Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing

94130 Textile fibre and yarn, hide and pelt processing machine operators and workers

94131 Weavers, knitters and other fabric making occupations

94132 Industrial sewing machine operators

94133 Inspectors and graders, textile, fabric, fur and leather products manufacturing

9414 Machine operators and related workers in food, beverage and associated products processing

94140 Process control and machine operators, food and beverage processing

94141 Industrial butchers and meat cutters, poultry preparers and related workers

94142 Fish and seafood plant workers

94143 Testers and graders, food and beverage processing

9415 Printing equipment operators and related occupations

94150 Plateless printing equipment operators

94151 Camera, platemaking and other prepress occupations

94152 Binding and finishing machine operators

94153 Photographic and film processors

942 Assemblers and inspectors in manufacturing

9420 Mechanical, electrical and electronics assemblers and inspectors

- 94200 Motor vehicle assemblers, inspectors and testers
- 94201 Electronics assemblers, fabricators, inspectors and testers
- 94202 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing
- 94203 Assemblers, fabricators and inspectors, industrial electrical motors and transformers
- 94204 Mechanical assemblers and inspectors
- 94205 Machine operators and inspectors, electrical apparatus manufacturing

9421 Furniture, wood, plastic and other products assemblers, finishers and inspectors

- 94210 Furniture and fixture assemblers, finishers, refinishers and inspectors
- 94211 Assemblers and inspectors of other wood products
- 94212 Plastic products assemblers, finishers and inspectors
- 94213 Industrial painters, coaters and metal finishing process operators
- 94219 Other products assemblers, finishers and inspectors

95 Labourers in processing, manufacturing and utilities**951 Labourers in processing, manufacturing and utilities****9510 Labourers in processing, manufacturing and utilities**

- 95100 Labourers in mineral and metal processing
- 95101 Labourers in metal fabrication
- 95102 Labourers in chemical products processing and utilities
- 95103 Labourers in wood, pulp and paper processing
- 95104 Labourers in rubber and plastic products manufacturing
- 95105 Labourers in textile processing and cutting
- 95106 Labourers in food and beverage processing
- 95107 Labourers in fish and seafood processing
- 95109 Other labourers in processing, manufacturing and utilities

Classification description

0 Legislative and senior management occupations

This broad category comprises legislators and senior management occupations.

00 Legislative and senior managers

This major group comprises senior management occupations, including legislators and senior managers in the public and private sectors.

000 Legislative and senior managers

This sub-major group comprises legislators and senior management occupations in the public and private sectors.

0001 Legislative and senior managers

This minor group comprises legislators and senior management occupations in the public and private sectors. They are employed by federal, provincial, territorial and local government legislative bodies, executive councils, band councils and school boards; municipal and regional governments and provincial, territorial and federal departments, boards, agencies and commissions; and throughout the private sector.

00010 Legislators

Legislators participate in the activities of a federal, provincial, territorial or local government legislative body or executive council, band council or school board as elected or appointed members.

Illustrative example(s)

- cabinet minister
- city councillor
- First Nations band chief
- governor general
- lieutenant-governor
- mayor
- Member of Legislative Assembly (MLA)
- Member of Parliament (MP)
- Member of the National Assembly (MNA)
- Member of the Provincial Parliament (MPP)
- premier
- prime minister
- school board trustee
- senator

Exclusion(s)

- Chief executive officer (CEO) - health, education, social and community services and membership organizations (See 00013-Senior managers - health, education, social and community services and membership organizations)
- Commissioner - government services (See 00011-Senior government managers and officials)

Main duties

This group performs some or all of the following duties:

- Enact, amend or repeal laws and regulations
- Participate in developing or amending government policies, programs or procedures
- Represent their government at local, national and international meetings and conferences
- Respond to matters of concern to constituents or the general public
- May serve as minister responsible for a government department or agency and direct senior government managers and officials in the implementation of government policy and the management of that department or agency.

Employment requirements

- Election to a legislative body, or appointment to positions such as senator, lieutenant-governor or governor general, is required.

00011 Senior government managers and officials

Senior government managers and officials plan, organize, direct, control and evaluate, through middle managers, the major activities of municipal or regional governments or of provincial, territorial or federal departments, boards, agencies or commissions. They establish the direction to be taken by these organizations in accordance with legislation and policies made by elected representatives or legislative bodies.

Illustrative example(s)

- assistant deputy minister
- chief administrative officer - regional municipality
- chief statistician - government services
- city administrator
- deputy minister
- director general - government services
- executive director - government services
- high commissioner
- Human Rights Commission chairperson

Inclusion(s)

- county clerk
- town clerk

Exclusion(s)

- Legislators (00010)
- Managers in public administration (4001)

Main duties

This group performs some or all of the following duties:

- Establish objectives for the organization in accordance with government legislation and policy, formulate or approve and evaluate programs and procedures alone or in conjunction with senior government committees

- Advise elected representatives on policy questions and refer major policy matters to these representatives for final decision
- Recommend, review, evaluate and approve documents, briefs and reports submitted by middle managers and senior staff members
- Coordinate department activities with other senior government managers and officials
- Make presentations to legislative and other government committees regarding policies, programs or budgets
- Allocate human and financial resources to implement organizational policies and programs
- Establish financial and administrative controls.

Employment requirements

- A university degree or college diploma is usually required.
- A graduate degree in a related field may be required.
- Several years of managerial experience in the public or private sector are required.

Additional information

- There is mobility among senior management occupations.

00012 Senior managers - financial, communications and other business services

Senior managers in financial, communications and other business services are usually appointed by a board of directors, to which they report. They work either alone or in conjunction with the board of directors to develop and establish objectives for the company, and to develop or approve policies and programs. They plan, organize, direct, control and evaluate, through middle managers, the operations of their organization in relation to established objectives. They work in establishments throughout the telecommunications, finance, insurance, real estate, and data processing, hosting and related services industries as well as other business service industries or they may own and operate their own business.

Illustrative example(s)

- advertising agency president
- bank president
- chief executive officer (CEO) - telephone company
- chief financial officer (CFO) - advertising agency
- chief operating officer - engineering firm
- computing services company president
- credit union executive director
- executive vice-president - real estate agency
- general manager - real estate management company
- human resources vice-president - bank
- marketing vice-president - clerical staff services
- operations vice-president - satellite communication services
- president and chief executive officer - financial, communications and other business services
- trust company regional vice-president

Exclusion(s)

- Managers in communication (except broadcasting) (1003)
- Managers in engineering, architecture, science and information systems (2001)
- Managers in financial and business services (1002)

Main duties

This group performs some or all of the following duties:

- Determine the company's mission and strategic direction as conveyed through policies and concrete objectives which are met through the effective management of human, financial and material resources
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall human resources planning
- Select middle managers, directors or other executive staff; delegate the necessary authority to them and create optimum working conditions
- Represent the organization, or delegate representatives to act on behalf of the organization, in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular service area.

Employment requirements

- A university degree in business administration, commerce, computer science or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in financial, communications or other business services are usually required.
- Specialization in a particular functional area or service is possible through specific university training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting or financial designation.

Additional information

- There is mobility among senior management occupations.

00013 Senior managers - health, education, social and community services and membership organizations

Senior managers in health, education, social and community services and membership organizations plan, organize, direct, control and evaluate, through middle managers, membership and other organizations or institutions that deliver health, education, social or community services. They formulate policies which establish the direction to be taken by these organizations, either alone or in conjunction with a board of directors. They are employed in health care organizations, educational services, social and community services and membership organizations or they may own and operate their own business.

Illustrative example(s)

- arts and culture association chairperson
- automobile association executive director
- business association president

- educational institution chief financial officer (CFO)
- health services institution executive director
- labour organization president
- membership organization general manager
- music guild president
- professional association executive director
- scientific association chairperson
- social services institution corporate controller
- voluntary organization executive director

Exclusion(s)

- Administrators - post-secondary education and vocational training (40020)
- Government managers - education policy development and program administration (40012)
- Government managers - health and social policy development and program administration (40010)
- Managers in health care (30010)
- Managers in social, community and correctional services (40030)
- Other managers in public administration (40019)
- School principals and administrators of elementary and secondary education (40021)

Main duties

This group performs some or all of the following duties:

- Establish objectives for the organization or institution and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Coordinate the work of regions, divisions or departments
- Represent the organization, or delegate representatives to act on behalf of the organization, in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing, human resources or in a particular service area.

Employment requirements

- A university degree or college diploma in business administration, hospital administration, finance or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in a related institution or organization are usually required.
- Specialization in a particular functional area or service is possible through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- There is mobility among senior management occupations.

00014 Senior managers - trade, broadcasting and other services

Senior managers in trade, broadcasting and other customer services plan, organize, direct, control and evaluate, through middle managers, trade, broadcasting and other service industry companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with a board of directors. They work in establishments in broadcasting and related media services, wholesale trade, retail trade, accommodation and food service, and other services or they may own and operate their own business.

Illustrative example(s)

- cleaning service general manager
- department store president
- engineering vice-president - television broadcasting services
- finance vice-president - food wholesaling
- hotel chain regional vice-president
- marketing vice-president - grocery store chain
- operations vice-president - radio broadcasting services
- professional sports club chief financial officer (CFO)
- restaurant chain corporate controller
- travel agency chief executive officer (CEO)

Exclusion(s)

- Managers in art, culture, recreation and sport (5001)
- Managers in customer and personal services (60040)
- Managers in food service and accommodation (6003)
- Retail and wholesale trade managers (6002)

Main duties

This group performs some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Coordinate the work of regions, divisions or departments
- Represent the company, or delegate representatives to act on behalf of the company, in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in the sale of a particular product or provision of a particular service.

Employment requirements

- A university degree or college diploma in business administration, finance or other discipline related to the service provided is usually required.
- Several years of experience as a middle manager in trade, broadcasting or other service are usually required.

- Specialization in a particular functional area or service is possible through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- There is mobility among senior management occupations.

00015 Senior managers - construction, transportation, production and utilities

Senior managers in construction, transportation, production and utilities plan, organize, direct, control and evaluate, through middle managers, the overall operations of goods production, utility, transportation and construction companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with other members of a board of directors. They work in establishments throughout the following industries: fishing, forestry, logging and agriculture; mining, oil and gas extraction; construction; transportation and warehousing; printing; manufacturing; and utilities or they may own and operate their own business.

Illustrative example(s)

- chief executive officer (CEO) - manufacturing company
- chief financial officer (CFO) - urban transit system
- executive vice-president - railway
- finance vice-president - mining company
- logging company corporate controller
- marketing vice-president - airline
- operations vice-president - electric power company
- petroleum production company regional vice-president
- publishing house general manager
- residential construction company president
- trucking company general manager

Exclusion(s)

- Managers in construction and facility operation and maintenance (7001)
- Managers in manufacturing and utilities (9001)
- Managers in natural resources production and fishing (80010)

Main duties

This group performs some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement company policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Coordinate the work of regions, divisions or departments

- Represent the company, or delegate representatives to act on behalf of the company, in negotiations or other official functions.

Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular product area.

Employment requirements

- A university degree or college diploma in engineering, business administration, commerce or other discipline related to the company's product is usually required.
- Several years of experience as a middle manager in goods production, utilities, transportation or construction are usually required.
- Specialization in a particular functional area or product is possible through specific university or college training in that area or through previous experience.
- Senior managers in finance usually require a professional accounting designation.

Additional information

- There is mobility among senior management occupations.

1 Business, finance and administration occupations

This broad category comprises specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting), as well as professional occupations in finance and business; administrative and financial supervisors and specialized administrative occupations; administrative occupations and transportation logistics occupations; and administrative and financial support and supply chain logistics occupations.

10 Specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting)

This major group comprises specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting). These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

100 Specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting)

This sub-major group comprises specialized middle management occupations in administrative services, financial and business services and communication (except broadcasting).

1001 Administrative services managers

This minor group comprises administrative services managers, including financial managers, human resources managers, purchasing managers and other administrative services managers. They are employed throughout the public and private sectors.

10010 Financial managers

Financial managers plan, organize, direct, control and evaluate the operation of financial and accounting departments. They develop and implement the financial policies and systems of establishments. Financial managers establish performance standards and prepare various financial reports for senior management. They are employed in financial and accounting departments in companies throughout the public and private sectors and in government.

Illustrative example(s)

- controller - financial services
- director - financial services
- director of accounting
- finance director
- financial administrator
- financial control manager
- financial planning and analysis manager
- internal audit services manager
- treasurer

Inclusion(s)

- corporate risk department manager
- pension plans administrator
- pension services manager

Exclusion(s)

- Accounting firm manager (See 10029-Other business services managers)
- Audit firm manager (See 10029-Other business services managers)
- Banking, credit and other investment managers (10021)
- Senior managers - financial, communications and other business services (00012)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operation of an accounting, audit or other financial department
- Develop and implement the financial policies, systems and procedures of an establishment
- Prepare or coordinate the preparation of financial statements, summaries, and other cost-benefit analyses and financial management reports
- Coordinate the financial planning and budget process, and analyze and correct estimates
- Supervise the development and implementation of financial simulation models
- Evaluate financial reporting systems, accounting procedures and investment activities and make recommendations for changes to procedures, operating systems, budgets and other financial control functions to senior managers and other department or regional managers
- Recruit, organize, train and manage staff
- Act as liaison between the organization and its shareholders, the investing public and external financial analysts
- Establish profitability standards for investment activities and handle mergers and/or acquisitions
- Notify and report to senior management concerning any trends that are critical to the organization's financial performance.

Employment requirements

- A bachelor's degree in business administration, economics, commerce or a related field is required.
- A master's degree in business administration (concentration in finance), or another master's level management program may be required.
- Several years of experience in accounting, auditing, budgeting, financial planning and analysis or other financial activities are required.
- Accounting and audit managers may require a recognized accounting designation (CPA, CA, CPA, CMA or CPA, CGA).
- Investment, treasury, or corporate finance managers may require a recognized financial designation (CFA, CFP, CIM or others).

Additional information

- Progression to senior management positions, such as vice-president of finance, is possible with experience.

10011 Human resources managers

Human resources managers plan, organize, direct, control and evaluate the operations of human resources and personnel departments, and develop and implement policies, programs and procedures regarding human resource planning, recruitment, collective bargaining, training and development, occupation classification and pay and benefit administration. They represent management and participate actively on various joint committees to

maintain ongoing relations between management and employees. They are employed throughout the private and public sectors.

Illustrative example(s)

- employer-employee relations manager
- human resources manager
- industrial relations manager
- occupational health and safety manager
- pay and benefits manager
- personnel director
- personnel services manager
- personnel training and development manager
- recruiting manager
- staff relations manager

Exclusion(s)

- Human resources and recruitment officers (12101)
- Human resources professionals (11200)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of human resources or personnel departments
- Plan human resource requirements in conjunction with other departmental managers
- Coordinate internal and external training and recruitment activities
- Develop and implement labour relations policies and procedures and negotiate collective agreements
- Administer employee development, language training and health and safety programs
- Advise and assist other departmental managers on interpretation and administration of personnel policies and programs
- Oversee the classification and rating of occupations
- Organize and conduct employee information meetings on employment policy, benefits and compensation and participate actively on various joint committees
- Direct the organization's quality management program
- Ensure compliance with legislation such as the Pay Equity Act.

Employment requirements

- A bachelor's degree in a field related to personnel management, such as business administration, industrial relations, commerce or psychology
or
Completion of a professional development program in personnel administration is required.
- Several years of experience as a personnel officer or human resource specialist are required.
- Some employers may require human resources managers to hold a Certified Human Resources Professional (CHRP) designation.

Additional information

- Progression to senior management positions is possible with experience.
- Other joint committees led by human resources managers may focus on issues such as alcohol or drug addiction.

10012 Purchasing managers

Purchasing managers plan, organize, direct, control and evaluate the activities of a purchasing department and develop and implement the purchasing policies of a business or institution. They are employed throughout the public and private sectors.

Illustrative example(s)

- contract manager
- food purchasing manager
- material manager
- procurement director
- purchasing contracts manager
- purchasing director
- supply chain logistics manager

Exclusion(s)

- Procurement and purchasing agents and officers (12102)
- Retail and wholesale buyers (62101)
- Warehousing manager (See 70012-Facility operation and maintenance managers)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the purchasing activities of an establishment
- Develop purchasing policies and procedures and control purchasing department budget
- Identify vendors of materials, equipment or supplies
- Evaluate cost and quality of goods or services
- Negotiate or oversee the negotiation of purchase contracts
- Participate in the development of specifications for equipment, products or substitute materials
- Review and process claims against suppliers
- Interview, hire and oversee training of staff.

Employment requirements

- A bachelor's degree or college diploma in business administration, commerce or economics is usually required.
- Purchasing managers responsible for units purchasing specialized materials or business services may require a related degree or diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasing managers responsible for purchasing industrial products.
- The designation Supply Chain Management Professional (SCMP) or registration in the educational program of the Supply Chain Management Association may be required.
- Several years of experience as a purchasing agent or officer are required.

10019 Other administrative services managers

Other administrative services managers plan, organize, direct, control and evaluate departments responsible for corporate governance and regulatory compliance, records management, security services, admissions and other administrative services. Also included in this unit group are managers responsible for departments involved in two or more of the following activities: finance, human resources, purchasing or administrative services. Managers in this unit group are employed throughout the public and private sectors.

Illustrative example(s)

- administrative services chief
- administrative services manager
- business manager - non-profit organization
- court registrar
- court services manager
- inventory control manager
- records administrator
- regional administrative manager
- security manager
- support services manager
- Supreme Court registrar

Exclusion(s)

- Computer and information systems managers (20012)
- Court clerks and related court services occupations (14103)
- Facility operation and maintenance managers (70012)
- Financial managers (10010)
- Human resources managers (10011)
- Purchasing managers (10012)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a department providing a single administrative service or several administrative services
- Direct and advise staff engaged in providing records management, security, finance, purchasing, human resources or other administrative services
- Direct and control corporate governance and regulatory compliance procedures within the establishment
- Plan, administer and control budgets for contracts, equipment and supplies
- Prepare reports and briefs for management committees evaluating administrative services
- Interview, hire and oversee training for staff.

Employment requirements

- A bachelor's degree or college diploma in business administration or a related administrative services field is usually required.
- Several years of experience at a professional level in business administration, finance or administrative services are usually required.

- An Associate of the Institute of Chartered Secretaries and Administrators (ACIS), Fellow of the Institute of Chartered Secretaries and Administrators (FCIS) or a Professional Administrator (P Adm) designation may be required for some occupations in this group.
- Certification in health information management by the Canadian Health Information Management Association (CHIMA) may be required.
- In Quebec, certification with the Association québécoise des archivistes médicales may be required.
- Court registrars employed by the higher courts may require judicial credentials.

Additional information

- Duties of court registrars can include those of other court services occupations such as court administrator and “Court Clerks” (14103) depending on the location and size of the courthouse.
- Court registrars in the higher courts may also perform various judicial duties.

1002 Managers in financial and business services

This minor group comprises managers in financial and business services, including insurance, real estate and financial brokerage managers; banking, credit and other investment managers; advertising, marketing and public relations managers and professionals; and other business services managers. They are employed by insurance companies, real estate firms, stockbrokers, investment dealers, mortgage brokers and security and commodity exchanges; banks, trust companies and credit unions; credit departments in department stores and other industrial and commercial organizations; credit card, consumer loan, mutual fund, mortgage and other loan, financing and investment companies; government departments; advertising, marketing and public relations firms and consulting businesses; and other establishments that provide services to business.

10020 Insurance, real estate and financial brokerage managers

Insurance, real estate and financial brokerage managers plan, organize, direct, control and evaluate the activities of departments or establishments that provide insurance, mortgage, real estate and investment services. They are generally responsible for business development and must ensure that their group reaches performance levels related to established objectives. They are employed by insurance companies, real estate firms, stockbrokers, investment dealers, mortgage brokers and security and commodity exchanges.

Illustrative example(s)

- bond sales manager
- brokerage manager - investments
- commodities trading manager
- financial brokerage manager
- insurance claims service manager
- insurance manager
- investment manager - financial brokerage
- mortgage broker manager
- real estate service manager
- securities sales director
- trading floor manager

Inclusion(s)

- real estate developer

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Banking, credit and other investment managers (10021)
- Financial managers (10010)
- Other business services managers (10029)
- Senior managers - financial, communications and other business services (00012)

Main duties

This group performs some or all of the following duties:

Insurance managers

- Plan, organize, direct, control and evaluate the operations of an establishment or department that provides automobile, fire, life, property or other types of insurance services.

Real estate service managers

- Plan, organize, direct, control and evaluate the operations of an establishment or department that buys, sells and leases residential and commercial properties for clients.

Mortgage broker managers

- Plan, organize, direct, control and evaluate the operations of an establishment or department that finds lenders or lending institutions on behalf of clients seeking a mortgage.

Securities managers

- Plan, organize, direct, control and evaluate the operations of an establishment or department that buys and sells stocks, bonds and other forms of investments on behalf of individual or institutional clients and manage the investments of their own clients.

Employment requirements

A university degree or college diploma in business administration, economics or other related field is usually required.

- Several years of experience within the appropriate industry are usually required.
- Licensure appropriate to the service sold, such as real estate, mortgage, securities or insurance, may be required.
- In the securities and investment industries, a recognized financial designation may be required (CFA, CFP, CIM or others).
- In the insurance industry, a recognized professional designation is usually required.

Additional information

- There is no mobility between the different types of managers in this unit group.
- Progression to senior management positions is possible with experience.

10021 Banking, credit and other investment managers

Banking, credit and other investment managers plan, organize, direct, control and evaluate the activities of financial establishments or operational departments within such establishments, or credit departments in industrial and commercial establishments. They oversee business development and manage overall performance in accordance with established strategic directions and policies. Banking managers are employed by banks,

trust companies and credit unions. Credit managers are employed by credit departments in department stores, utility companies, car dealerships, insurance companies or other industrial or commercial organizations. Other investment managers are employed by credit card companies, consumer loan companies, mutual fund investment firms, mortgage investment companies or other financial establishments concerned with extending loans and financing and investments.

Illustrative example(s)

- assistant operations manager - banking, credit and investment
- bank manager
- banking operations manager
- collection centre manager
- commercial banking manager
- corporate banking centre manager
- corporate services manager - banking, credit and investment
- credit card centre manager
- credit card company operations manager
- credit manager
- credit union manager
- mortgage and consumer credit manager
- personal services manager - banking, credit and investment
- regional collection manager
- trust company manager

Exclusion(s)

- Mortgage broker manager (See 10020-Insurance, real estate and financial brokerage managers)
- Other business services managers (10029)
- Senior managers - financial, communications and other business services (00012)

Main duties

This group performs some or all of the following duties:

Banking managers

- Plan, organize, direct, control and evaluate the branch operations of a bank, trust company, credit union or similar financial institution or of a department in such an institution responsible for administering personal and commercial loans, buying and selling securities, operating investment funds, administering trusts, settling estates or other related activities
- Ensure the institution's policies and procedures are followed according to established guidelines and make recommendations for improvement
- Network to develop business relations, promote the sale of loan, investment and other banking services and attract corporate and individual customers
- Interview corporate and individual customers and respond to customer enquiries
- Analyze, review and approve or reject loan and credit applications in accordance with authorized limits
- Monitor processing of loan applications and credit investigations
- Oversee preparation of monthly financial and branch progress reports
- Recruit personnel and identify their training needs.

Credit managers

- Plan, organize, direct, control and evaluate the activities of a credit department in an industrial or commercial organization
- Administer corporate, commercial and personal loan accounts
- Advise customers on the commercial and personal financial services corresponding to their needs
- Evaluate and review loan and credit applications and collateral and make recommendations
- Approve or reject credit applications, establish credit limits and determine repayment plans or schedules in accordance with authorized limits
- Ensure collection of overdue or delinquent accounts
- Ensure credit policies and procedures are followed according to established guidelines and applicable legislation
- Prepare credit and loan reports
- Recruit credit personnel and identify their training needs.

Employment requirements

- A university degree or college diploma in business administration, commerce, economics or a related field is usually required.
- A master's degree in business administration, finance or management science may be required for the management of large commercial loans.
- A recognized financial designation may be required (CFA, CFP, CIM or others).
- Completion of company or other management training programs is usually required.
- Several years of experience within the industry, including supervisory experience, are required.

Additional information

- Progression to senior management positions in this field is possible with experience.

10022 Advertising, marketing and public relations managers

Advertising, marketing, public relations and e-business managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial and e-business advertising, marketing and public relations. They are employed by commercial and industrial establishments, government departments, and advertising, marketing and public relations firms or consulting businesses.

Illustrative example(s)

- advertising director
- advertising manager
- electronic business (e-business) manager
- fundraising campaign manager
- Internet communications manager
- marketing manager
- media relations director
- promotions manager
- public relations director
- sales and marketing manager

- Web communications manager
- Web marketing manager

Exclusion(s)

- Business development officers and market researchers and analysts (41402)
- Conference and event planners (12103)
- Corporate sales managers (60010)
- Professional occupations in advertising, marketing and public relations (11202)
- Retail and wholesale trade managers (60020)
- Retail sales supervisors (62010)
- Sales and account representatives - wholesale trade (non-technical) (64101)
- Senior managers - trade, broadcasting and other services (00014)
- Technical sales specialists - wholesale trade (62100)

Main duties

This group performs some or all of the following duties:

Advertising managers

- Plan, direct and evaluate the activities of firms and departments that develop and implement advertising campaigns to promote the sales of products and services.

Marketing managers

- Establish distribution networks for products and services, initiate market research studies and analyze their findings, assist in product development, and direct and evaluate the marketing strategies of establishments.

Public relations managers

- Direct and evaluate establishments and departments that develop and implement communication strategies and information programs, publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations.

E-business marketing managers

- Plan, organize, direct, control and evaluate the design, development and maintenance of Internet, Intranet and mobile applications to manage an organization's online business model and strategy
- Collaborate with advertising, marketing, and public relations teams to plan, develop, evaluate and manage an organization's online presence including public relations, communications, marketing, commercial activities and social media management.

Employment requirements

Advertising and public relations managers

- A university degree or college diploma in communications, public relations, marketing, journalism or in a related field
and
Several years of experience in an advertising, public relations or communications officer position or in a related occupation are required.

Marketing managers

- A university degree or college diploma in business administration or in a related field with a specialization in sales or marketing
and
Several years of experience as a sales, marketing or public relations representative or in a related occupation are required.

E-business managers

- A university degree or college diploma in a field related to electronic commerce, Web site content development, or Internet and mobile services
and
Experience in Web site design, interactive media development, data administration or information systems analysis or experience related to Web site content are usually required.

Additional information

- Progression to senior management positions is possible with experience.

10029 Other business services managers

Other business services managers plan, organize, direct, control and evaluate the operations of establishments that provide services to business, and ensure the quality of those services and client satisfaction. They work in fields such as management consulting, market research, personnel and payroll services, contact centre services and security services.

Illustrative example(s)

- accounting firm manager
- contact centre manager
- employment agency manager
- energy asset joint venture manager
- legal firm manager
- management consulting service manager
- market research service manager
- nursing registry manager
- payroll service manager
- personnel agency manager
- professional services manager - business services
- security service manager

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Architecture and science managers (20011)
- Banking, credit and other investment managers (10021)
- Computer and information systems managers (20012)
- Engineering managers (20010)
- Insurance, real estate and financial brokerage managers (10020)
- Senior managers - financial, communications and other business services (00012)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of establishments that provide services to business such as management consulting, market research, personnel and payroll services, contact centre services and security services
- Plan, develop and organize the policies and procedures of these establishments
- Develop action plans, provide expertise in response to client needs, and support and advise project teams
- Direct and advise staff in the development and implementation of service quality assessment strategies
- Plan, administer and control budgets for client projects, contracts, equipment and supplies
- Represent the company within various economic and social organizations
- Assist staff with administrative or technical problems
- Hire, train and supervise staff.

Employment requirements

- A bachelor's degree or college diploma in a field related to the business service provided is usually required.
- Several years of experience in a field related to the business service provided are usually required.
- Licences, certificates or registration may be required for some business services managers. For example, accounting firm managers usually require accounting certification.
- University studies in business administration may be required.

1003 Managers in communication (except broadcasting)

This minor group comprises managers in communication other than broadcasting, including telecommunication carriers managers. They are employed by wired, wireless, satellite and other telecommunication carriers.

10030 Telecommunication carriers managers

Telecommunication carriers managers plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility. They are employed by wired, wireless, satellite and other telecommunications carriers.

Illustrative example(s)

- microwave facilities manager - telecommunications
- network installation manager - telecommunications
- network operations manager - telecommunications
- network services manager - telecommunications
- operations and transmission services manager - telecommunications
- regional manager - telecommunications system
- switching systems director - telecommunications
- telecommunications facilities manager
- telecommunications installation manager
- telecommunications manager
- telecommunications services manager
- telephone company district manager

Exclusion(s)

- Broadcasting manager (See 50011-Managers - publishing, motion pictures, broadcasting and performing arts)
- Senior managers - financial, communications and other business services (00012)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility
- Consult with senior managers to establish policies concerned with the development, operation and maintenance of telecommunications services
- Direct and control telecommunications traffic volume and flow within assigned areas, through subordinate supervisors and technical staff
- Analyze and evaluate telecommunications installation, operation and maintenance services and make recommendations for improvement
- Ensure compliance with telecommunications regulations and directives of government regulatory agencies
- Liaise with representatives of related or connecting companies to resolve joint telecommunications problems and ensure efficient telecommunications system operations
- Recruit personnel and oversee their training.

Employment requirements

- A university degree in science, electrical engineering or a related field is usually required.
- Several years of experience in a related technical profession, including supervisory experience, are usually required.

Additional information

- Progression to senior management positions in telecommunications is possible with experience.

11 Professional occupations in finance and business

This major group comprises professional occupations in finance and business. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 1. Occupations classified in TEER 1, as those in this group with a 1 as the second digit of their code, typically require a university degree (bachelor's, master's or doctorate) or the accumulation of several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 2 (which includes occupations with a 2 as a second digit in their code).

111 Professional occupations in finance

This sub-major group comprises professional occupations in finance, including auditors, accountants, investment professionals and other financial officers.

1110 Auditors, accountants and investment professionals

This minor group comprises auditors, accountants and investment professionals such as financial auditors and accountants, financial and investment analysts, financial advisors, securities agents, investment dealers and brokers, and other financial officers. These professionals are employed by auditing and accounting firms; banks and insurance, underwriting, investment, fund management and trust companies; utility and manufacturing

companies; stock brokerage firms, stock and commodity exchanges and other establishments in the securities industry; and throughout the public and private sectors; or they may be self-employed.

11100 Financial auditors and accountants

Financial auditors examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures. Accountants plan, organize and administer accounting systems for individuals and establishments. They are employed by private sector accounting and auditing firms or departments and public sector accounting and auditing departments or units, or they may be self-employed. Articling students in accounting firms are included in this unit group.

Illustrative example(s)

- accountant
- chief accountant
- financial auditor
- income tax expert
- industrial accountant
- internal auditor

Exclusion(s)

- Accounting technicians and bookkeepers (12200)
- Financial managers (10010)
- Policy and program researchers, consultants and officers (4140)

Main duties

This group performs some or all of the following duties:

Financial auditors

- Examine and analyze journal and ledger entries, bank statements, inventories, expenditures, tax returns and other accounting and financial records, documents and systems of individuals, departments within organizations, businesses or other establishments to ensure financial recording accuracy and compliance with established accounting standards, procedures and internal controls
- Prepare detailed reports on audit findings and make recommendations to improve individual or establishment's accounting and management practices
- Conduct field audits of businesses to ensure compliance with provisions of the Income Tax Act, Canadian Business Corporations Act or other statutory requirements
- May supervise other auditors or professionals in charge of accounting within client's establishment.

Accountants

- Plan, set up and administer accounting systems and prepare financial information for individuals, departments within organizations, businesses and other establishments
- Examine accounting records and prepare financial statements and reports
- Develop and maintain cost finding, reporting and internal control procedures
- Examine financial accounts and records and prepare income tax returns from accounting records
- Analyze financial statements and reports and provide financial, business and tax advice
- May act as a trustee in bankruptcy proceedings
- May supervise and train articling students, other accountants or administrative technicians.

Employment requirements

- Chartered professional accountants, chartered accountants (CPA, CA) require a university degree and
Completion of a professional training program approved by a provincial Institute of chartered accountants and, depending on the province, either two years or 30 months of on-the-job training
and
Membership in a provincial Institute of Chartered Accountants upon successful completion of the Uniform Evaluation (UFE).
- Chartered professional accountants, certified general accountants (CPA, CGA) and chartered professional accountants, certified management accountants (CPA, CMA) require a university degree and completion of an approved training program and several years of on-the-job training and certification with a regulatory body is required in all provinces and territories.
- Auditors require education, training and recognition as indicated for chartered professional accountants, chartered accountants (CPA, CA), chartered professional accountants, certified general accountants (CPA, CGA) or chartered professional accountants, certified management accountants (CPA, CMA) and some experience as an accountant.
- Auditors may require recognition by the Institute of Internal Auditors.
- To act as a trustee in bankruptcy proceedings, auditors and accountants must hold a licence as a trustee in bankruptcy.
- Licensing by the provincial or territorial governing body is usually required for accountants and auditors practising public accounting.

Additional information

- There is limited mobility among the three professional accounting designations: Chartered professional accountant, chartered accountant (CPA, CA); Chartered professional accountant, certified general accountant (CPA, CGA), and Chartered professional accountant, certified management accountant (CPA, CMA).
- Progression to auditing or accounting management positions is possible with experience.

11101 Financial and investment analysts

Financial and investment analysts collect and analyze financial information such as economic forecasts, trading volumes and the movement of capital, financial backgrounds of companies, historical performances and future trends of stocks, bonds and other investment instruments to provide financial and investment or financing advice for their company or their company's clients. Their studies and evaluations cover areas such as takeover bids, private placements, mergers or acquisitions. Financial analysts are employed by a wide range of establishments throughout the private and public sector, such as banks, brokerage houses, insurance companies, investment companies, manufacturing firms, trust companies, utility companies and underwriting firms. Investment analysts are employed primarily by brokerage houses and fund management companies.

Illustrative example(s)

- chartered financial analyst
- financial analyst
- financial services research associate
- investment analyst
- money market analyst
- portfolio manager

Exclusion(s)

- Economic development officer (See 41402-Business development officers and market researchers and analysts)
- Economist (See 41401-Economists and economic policy researchers and analysts)
- Financial planner (See 11102-Financial advisors)
- Securities agents, investment dealers and brokers (11103)

Main duties

This group performs some or all of the following duties:

Financial analysts

- Evaluate financial risks, prepare financial forecasts, financing scenarios and other documents concerning capital management, and write reports and recommendations
- Plan short- and long-term cash flows and assess financial performance
- Analyze investment projects
- Advise on and participate in the financial aspects of contracts and calls for tender
- Follow up on financing projects with financial backers
- Develop, implement and use tools for managing and analyzing financial portfolio
- Prepare a regular risk profile for debt portfolios
- Assist in preparing operating and investment budgets
- Develop and update financial or treasury policies.

Investment analysts

- Collect financial and investment information about companies, stocks, bonds and other investments using daily stock and bond reports, economic forecasts, trading volumes, financial periodicals, securities manuals, company financial statements and other financial reports and publications
- Examine and analyze financial and investment information collected, including profiles of companies, stock and bond prices, yields and future trends and other investment information
- Provide investment advice and recommendations to clients, senior company officials, pension fund managers, securities agents and associates
- Prepare company, industry and economic outlooks, analytical reports, briefing notes and correspondence.

Employment requirements

- A bachelor's degree in commerce, business administration, accounting, finance or economics and on-the-job training and industry courses and programs are usually required.
- A master's degree in business administration (MBA) (concentration in finance) or in finance may be required.
- The Chartered Financial Analyst (CFA) designation, available through a program conducted by the CFA Institute or an other recognized financial designations (CFP, CIM or others), is usually required.
- Other designations, such as Chartered Professional Accountant (CPA) and Certified Treasury Professional (CTP), may be required by some employers.

Additional information

- Progression to management positions, such as securities manager, is possible with experience.

11102 Financial advisors

Financial advisors counsel individuals on financial decisions such as investments, cash management, and estate planning. They establish personal financial plans according to clients' objectives and guide them through the implementation of the proposed strategies that may be adjusted as the situation evolve. They are employed by banks, trust companies and investment firms, or they may be self-employed.

Illustrative example(s)

- account manager
- financial advisor
- financial consultant
- financial planner
- financial security advisor
- personal finance advisor
- personal investment advisor

Exclusion(s)

- Financial and investment analysts (11101)
- Managers in financial and business services (1002)
- Other financial officers (11109)
- Securities agents, investment dealers and brokers (11103)

Main duties

This group performs some or all of the following duties:

- Develop personal financial plans for clients covering cash management, finances, insurance coverage, investments, retirement and estate planning, taxes and legal matters
- Analyze clients' financial records, set goals and develop a financial strategy
- Advise clients on implementing the financial plan to help them achieve their goals
- May also arrange for the purchase and sale of financial products and investments depending on the licence held, and monitor the portfolio to ensure its quality and profitability
- May help to expand business and attract new clients.

Employment requirements

- A bachelor's degree in business administration, commerce, economics or a related field is usually required.
- The designation Certified Financial Planner, awarded by the Financial Planners Standards Council of Canada, may be required.
- To sell regulated financial products and investments, such as annuities, RRSPs and life insurance, a licence is required from the appropriate governing body.
- Certification as a Financial Planner is required in Quebec.
- Various training programs and courses are offered by financial institutes and organizations, such as the Canadian Securities Institute, Institute of Canadian Bankers, CFA Institute, Investment Funds Institute, Canadian Institute of Financial Planning, and Trust Companies Institute of Canada, and may be required by employers.

Additional information

- While these kinds of positions require a high degree of training and qualifications, persons who occupy them must continually update their skills and pursue professional development.
- Progression to financial management positions is possible with experience.

11103 Securities agents, investment dealers and brokers

Securities agents and investment dealers buy and sell stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers, banks, trust companies, insurance firms and other establishments. Brokers buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers. They are employed by investment companies, stock brokerage firms, stock and commodity exchanges and other establishments in the securities industry.

Illustrative example(s)

- bond dealer
- broker
- commodity broker
- discount broker
- floor trader - commodity exchange
- foreign exchange trader
- investment dealer
- mutual fund broker
- mutual fund sales representative
- registered investment representative
- registered representatives supervisor
- securities agent
- securities sales agent
- securities trader
- stockbroker

Exclusion(s)

- Financial and investment analysts (11101)
- Financial brokerage manager (See 10020-Insurance, real estate and financial brokerage managers)
- Other financial officers (11109)

Main duties

This group performs some or all of the following duties:

Securities agents and investment dealers

- Develop long-term relationships with their clients by preparing investment strategies to help them achieve their financial goals, offering advice and information on various investments to guide them in managing their portfolios
- Review financial periodicals, stock and bond reports, business publications and other material, and develop a network within the financial industry to gather relevant information and identify potential investments for clients

- Carry out investment orders by buying and selling stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers or companies such as banks, trust companies and insurance firms
- Monitor clients' investment portfolios and ensure that investment transactions are carried out according to industry regulations.

Brokers

- Buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers
- Develop trading strategies by reviewing investment information and monitoring market conditions from the exchange floor and through contact with trading departments of other investment firms, pension fund managers and investment company financial analysts
- Make bids and offers to buy and sell securities and complete details of sales on exchange trade tickets
- Prepare reviews of portfolios' positions.

Employment requirements

- A bachelor's or master's degree in economics, business or other discipline is usually required.
- A recognized financial designation may be required (CFA, CFP, CIM or others).
- Securities sales representatives and brokers require completion of industry investment and sales training programs and completion of licensing courses such as the Canadian Securities Course and the Conduct and Practices Handbook Course offered by the Canadian Securities Institute, or acceptable alternatives such as completion of one or more levels of the CFA Program, offered by CFA Institute.
- Specialized courses are also available for securities sales representatives and brokers who want to trade in specific investment products such as securities options and futures contracts.
- Licensure by the provincial securities commission in the province of employment or a recognized self-regulatory organization is required for securities agents, investment dealers and brokers.

Additional information

- Progression to related management positions is possible with experience.

11109 Other financial officers

Other financial officers include professional occupations in finance such as financial examiners and inspectors, financial investigators, financial underwriters, mortgage brokers and trust officers. They are employed by banks, trust companies, investment firms and governments, or they may be self-employed.

Illustrative example(s)

- credit adjudicator
- credit unions examiner
- estate and trust administrator
- financial institutions inspector
- financial investigator
- financial underwriter
- mortgage broker
- trust officer

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Banking, credit and other investment managers (10021)
- Economic development officer (See 41402-Business development officers and market researchers and analysts)
- Economist (See 41401-Economists and economic policy researchers and analysts)
- Financial and investment analysts (11101)
- Insurance, real estate and financial brokerage managers (10020)
- Other business services managers (10029)
- Securities agents, investment dealers and brokers (11103)

Main duties

This group performs some or all of the following duties:

Financial examiners and inspectors

- Review and examine banks, trust companies, credit unions, caisses populaires, credit companies, real estate companies, insurance companies, pension funds, securities brokers and other financial services and institutions to ensure compliance with governing legislation and regulations.

Financial investigators

- Investigate possible unethical conduct or breaches of securities or commodity futures laws by persons or companies that trade in securities and commodity futures or that provide related financial services.

Financial underwriters

- Analyze client requests to assess risk and details of stocks, bonds, mortgages or other financing solutions
- Negotiate with corporations, governments or individuals to determine the type and terms of financial products and prepare offering prospectuses or contracts
- May underwrite new issues of stocks and bonds.

Trust officers

- Administer estate, personal, charitable, corporate and other types of trusts
- Direct trust account investments, receive and record investment income and disburse trust funds.

Mortgage brokers

- Meet with clients to obtain information about income, liabilities and assets, and type, price and condition of property to be mortgaged
- Negotiate mortgage loans with lenders or lending institutions on behalf of clients.

Employment requirements

- A bachelor's degree in business administration, commerce, economics or a related field is usually required.
- Various training programs and courses are offered by financial institutes and organizations, such as the Canadian Securities Institute, Institute of Canadian Bankers, CFA Institute, Investment Funds Institute, and Trust Companies Institute of Canada, and may be required by employers.
- A recognized financial designation may be required (CFA, CIM or others).

- Financial examiners and inspectors may require a recognized accounting designation.
- Mortgage brokers require a mortgage broker licence in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, New Brunswick, Newfoundland and Labrador and Nova Scotia.

Additional information

- While these kinds of positions require a high degree of training and qualifications, persons who occupy them must continually update their skills and pursue professional development.
- Progression to financial management positions is possible with experience.

112 Professional occupations in business

This sub-major group comprises professional occupations in business, including human resources and business service professionals.

1120 Human resources and business service professionals

This minor group comprises human resources and business service professionals, including professional occupations in human resources, business management consulting, and those professional occupations in advertising, marketing and public relations. They are employed by consulting firms, advertising agencies, corporations, associations, social agencies, museums, galleries, public interest groups and cultural and other organizations; and throughout the public and private sectors; or they may be self-employed.

11200 Human resources professionals

Human resources professionals develop, implement and evaluate human resources and labour relations policies, programs and procedures and advise employers and employees on human resources matters. They are employed throughout the public and private sectors, or they may be self-employed.

Illustrative example(s)

- classification officer - human resources
- classification specialist
- compensation research analyst
- conciliator
- employee relations officer
- employment equity officer
- human resources consultant
- human resources research officer
- job analyst
- labour organization business agent
- labour relations officer
- mediator
- union representative
- wage analyst

Inclusion(s)

- employment adviser - human resources
- staff training and development officer

Exclusion(s)

- Human resources and recruitment officers (12101)
- Human resources managers (10011)
- Personnel clerks (14102)
- Professional occupations in business management consulting (11201)
- Training officer - company (See 41210-College and other vocational instructors)

Main duties

This group performs some or all of the following duties:

- Plan, develop, implement and evaluate human resources and labour relations strategies including policies, programs and procedures to address an organization's human resource requirements
- Advise employers and employees on the interpretation of human resources policies, compensation and benefit programs and collective agreements
- Negotiate collective agreements on behalf of employers or workers, mediate labour disputes and grievances and provide advice on employee and labour relations
- Research and prepare occupational classifications, job descriptions, salary scales and competency appraisal measures and systems
- Plan and administer staffing, total compensation, training and career development, employee assistance, employment equity and affirmative action programs
- Manage programs and maintain human resources information and related records systems
- Hire and oversee training of staff
- Coordinate employee performance appraisal programs
- Research employee benefit and health and safety practices and recommend changes or modifications to existing policies.

Employment requirements

- A university degree or college diploma in human resources management or a related field, such as business administration, industrial relations, commerce or psychology
or
Completion of a professional development program in human resources administration is required.
- Some employers may require human resources professionals to hold a Certified Human Resources Professional (CHRP) designation.

Additional information

- Progression to management positions is possible with experience.

11201 Professional occupations in business management consulting

Professionals in business management consulting occupations provide services to management such as analyzing the structure, operations, managerial methods or functions of an organization in order to propose, plan and implement improvements. They are employed by management consulting firms and throughout the public and private sectors or are self-employed.

Illustrative example(s)

- business management consultant
- business methods analyst

- health information management consultant
- ISO consultant
- management analyst
- operations management senior consultant
- organization and methods researcher
- organizational analysis consultant
- organizational analyst
- records management specialist

Exclusion(s)

- Business development officers and market researchers and analysts (41402)
- Economists and economic policy researchers and analysts (41401)
- Engineering inspectors and regulatory officers (22231)
- Financial and investment analysts (11101)
- Financial auditors and accountants (11100)
- Health information management occupations (12111)
- Industrial and manufacturing engineers (21321)
- Other financial officers (11109)
- Records management technicians (12112)

Main duties

This group performs some or all of the following duties:

- Analyze and provide advice on the managerial methods and organization of a public or private sector establishment
- Conduct research to determine efficiency and effectiveness of managerial policies and programs
- Conduct assessments and propose improvements to methods, systems and procedures in areas such as operations, human resources, records management, security management and communications
- Conduct quality audits and develop quality management and quality assurance standards for ISO (International Organization for Standardization) registration
- Provide guidance and support to businesses on regulatory policies and procedures; ensure internal compliance with regulatory requirements; and prepare submissions and filings with regulatory bodies
- Plan the reorganization of the operations of an establishment
- May supervise contracted researchers or clerical staff.

Employment requirements

- A bachelor's degree or college diploma in business administration, commerce or a related discipline is usually required.
- A graduate degree in business administration may be required.
- Some establishments may require management consultants to be certified by a provincial management consulting association.
- Certification as a quality auditor may be required for some occupations in this unit group.
- Occupations in health information management consulting may require certification by the Canadian Health Information Management Association (CHIMA).

Additional information

- Progression to senior and managerial positions is possible with experience.

11202 Professional occupations in advertising, marketing and public relations

Professional occupations in advertising, marketing and public relations analyse, develop and implement communication and promotion strategies and information programs; analyse advertising needs and develop appropriate advertising and marketing plans; publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations, and for performers, athletes, writers and other talented individuals. They are employed by marketing and consulting firms, advertising agencies, corporations, associations, government, social agencies, museums, galleries, public interest groups, and cultural and other organizations, or they may be self-employed. Agents such as entertainment, literary and sports agents are included in this unit group.

Illustrative example(s)

- advertising consultant
- communications officer (except emergency services)
- communications specialist
- digital marketing consultant
- event marketing specialist
- fundraising consultant
- information officer
- literary agent
- marketing consultant
- marketing coordinator
- media coordinator
- media relations officer
- museum educator
- performers agent
- press secretary
- public affairs officer
- public relations consultant
- public relations officer
- publicist
- publicity agent

Inclusion(s)

- development officer - fundraising
- fundraiser
- information consultant
- information service coordinator

Exclusion(s)

- Authors and writers (See 51111-Authors and writers (except technical))
- Business development officers and market researchers and analysts (41402)

- Conference and event planners (12103)
- Public relations manager (10022-Advertising, marketing and public relations managers)

Main duties

This group performs some or all of the following duties:

- Assess characteristics of products or services to be promoted to determine marketing and advertising needs of an establishment
- Advise clients on marketing, advertising or sales promotion opportunities and strategies
- Develop strategies and related content for direct and digital marketing and advertising campaigns and implement them
- Manage post campaign analysis to measure and report on marketing and advertising metrics
- Develop and maintain social media accounts, including managing customer reviews and testimonials
- Develop, implement and evaluate public relations strategies and programs designed to inform clients, employees and the general public of initiatives and policies of businesses, governments and other organizations
- Conduct public opinion and attitude surveys to identify the interests and concerns of key groups served by their organization
- Prepare or oversee preparation of reports, briefs, bibliographies, speeches, presentations, Web sites and press releases
- Develop and organize workshops, meetings, ceremonies and other events and programs for publicity, fundraising and information purposes
- Arrange interviews, news conferences and other media events
- Act as spokesperson for an organization and answer written and oral inquiries
- Coordinate special publicity events and promotions for internal and external audiences
- Assist in the preparation of brochures, reports, newsletters and other material
- Represent and act as an agent for talented individuals or individuals with specific occupational expertise
- Prepare or oversee preparation of sports, literary, performance or other contracts.

Literary agents specialize in representing specific types of authors and writers. Performance agents specialize in representing singers, musicians, actors or other performers. Sports agents specialize in representing specific athletes or sports teams.

Employment requirements

- A university degree or college diploma in business marketing, public relations, communications, journalism, museology or a discipline related to a particular subject matter is usually required.
- Practitioners in public relations may require an APR (Accredited in Public Relations) designation.

Additional information

- Progression to managerial positions in public relations, communications and fundraising is possible with additional training and experience.

12 Administrative and financial supervisors and specialized administrative occupations

This major group comprises administrative and financial supervisors; specialized administrative occupations; and accounting, insurance and related business administrative occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those in this group with a 2 as the second digit of their code, typically require completion of a post-secondary

education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

120 Administrative and financial supervisors

This sub-major group comprises administrative and financial supervisors, including supervisors of general office and administrative support workers; supervisors of finance and insurance office workers; supervisors of library, correspondence and related information workers; and supervisors of those in supply chain, tracking and scheduling coordination occupations.

1201 Administrative and financial supervisors

This minor group comprises administrative and financial supervisors, including supervisors of general office and administrative support workers; supervisors of finance and insurance office workers; supervisors of library, correspondence and related information workers; and supervisors of those in supply chain, tracking and scheduling coordination occupations. They are employed by banks, other financial institutions, insurance companies, courier companies; and throughout the public and private sectors.

12010 Supervisors, general office and administrative support workers

Supervisors of general office and administrative support workers supervise and coordinate the activities of workers in the following minor groups: Office support and court services occupations (1410) and Survey, statistical and data entry occupations (1411). They are employed throughout the public and private sectors.

Illustrative example(s)

- clerical supervisor
- data entry supervisor
- filing clerks supervisor
- hospital admitting clerks supervisor
- personnel clerks supervisor
- records office supervisor
- registry supervisor
- switchboard operators supervisor

Inclusion(s)

- operations supervisor

Exclusion(s)

- Office manager (See 13100-Administrative officers)
- Supervisors, finance and insurance office workers (12011)
- Supervisors, library, correspondence and related information workers (12012)
- Supervisors, mail and message distribution occupations (72025)
- Supervisors, supply chain, tracking and scheduling coordination occupations (12013)

Main duties

This group performs some or all of the following duties:

- Coordinate, assign and review the work of clerks engaged in the following duties: word processing; record keeping and filing; operating telephones and switchboards; data entry; desktop publishing; and other activities involving general office and administrative skills
- Establish work schedules and procedures and coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of office equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Completion of college courses related to area supervised is usually required.
- Experience in the occupation supervised is usually required.

12011 Supervisors, finance and insurance office workers

Supervisors of finance and insurance office workers supervise and coordinate the activities of workers in the following unit groups: Payroll administrators (13102), Accounting and related clerks (14200), Banking, insurance and other financial clerks (14201) and Collection clerks (14202). They are employed by banks and other financial institutions, insurance companies, and by other establishments throughout the public and private sectors.

Illustrative example(s)

- accounts payable supervisor
- accounts receivable supervisor
- bank clerks supervisor
- billing supervisor
- bookkeeping supervisor
- claims adjusters supervisor
- collection supervisor
- credit supervisor
- payroll supervisor
- supervisor of accounting

Exclusion(s)

- Customer and information services supervisors (62023)
- Financial advisors (11102)
- Financial managers (10010)
- Other financial officers (11109)

Main duties

This group performs some or all of the following duties:

- Implement efficient working processes and coordinate, assign and review the work of clerks engaged in the following duties: administering accounts payable and receivable; processing, verifying and recording financial documents and forms; administering payrolls; processing, verifying and recording insurance claims and forms; and collecting user fees and payments on overdue accounts
- Examine and verify accuracy of work and authorize routine payments, credits and other transactions
- Establish work schedules and procedures and coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Identify training needs and train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of a college program or courses in bookkeeping, accounting or a related subject is required.
- Experience in the clerical occupation supervised is required.

12012 Supervisors, library, correspondence and related information workers

Supervisors of library, correspondence and related information workers supervise and coordinate the activities of workers in the following unit groups: Survey interviewers and statistical clerks (14110), Library assistants and clerks (14300), and Correspondence, publication and regulatory clerks (14301). They are employed throughout the public and private sectors.

Illustrative example(s)

- advertising clerks supervisor
- correspondence clerks supervisor
- library clerks supervisor
- publication clerks supervisor
- statistical clerks supervisor
- survey interviewers supervisor

Exclusion(s)

- Librarians (51100)
- Library and public archive technicians (52100)

Main duties

This group performs some or all of the following duties:

- Coordinate, assign and review the work of clerks engaged in the following duties: conducting surveys and interviews; collecting and compiling statistics; preparing and issuing licences, passports and other regulatory documents; reshelving books and performing other tasks in libraries; writing correspondence including e-mails and preparing material for translation and publication
- Establish work schedules and procedures and coordinate activities with other work units or departments

- Resolve work-related problems, monitor services provided by clerks and agents, and prepare and submit progress and other reports
- Train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Completion of college courses related to area supervised may be required.
- Experience in the clerical occupation supervised is usually required.

12013 Supervisors, supply chain, tracking and scheduling coordination occupations

Supervisors of supply chain, tracking and scheduling coordination occupations supervise the activities of workers in unit group 13201 Production and transportation logistics coordinators and in sub-major group 144: Supply chain logistics, tracking and scheduling coordination occupations. They are employed throughout the public and private sectors.

Illustrative example(s)

- flight crew scheduling supervisor
- head dispatcher
- head shipper
- inventory control supervisor
- parts service supervisor
- production clerks supervisor
- receiving supervisor
- transportation logistics supervisor

Exclusion(s)

- Production and transportation logistics coordinators (13201)
- Supervisors, mail and message distribution occupations (72025)

Main duties

This group performs some or all of the following duties:

- Supervise, plan, assign and review the work of clerks engaged in the following duties: shipping, receiving, storing, distributing and maintaining inventories of materials, parts and products; processing purchasing transactions; coordinating production work; dispatching crews; scheduling transportation crews and routes and other related activities
- Ensure compliance with policies, procedures for safety and security, standards and regulations in force and participate in their improvement
- Resolve various problems and related complaints and implement corrective measures and process improvements
- Train workers in job duties

- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery and arrange for maintenance and repair work
- May conduct performance reviews of supervised workers
- May perform the same duties as workers supervised.

Employment requirements

- Completion of a post-secondary education program of two to three years in business, supply chain, production or manufacturing management or related is usually required.
- Several years of experience in the occupation supervised are usually required.

121 Specialized administrative occupations

This sub-major group comprises specialized administrative occupations, including administrative and regulatory occupations, as well as court reporters, transcriptionists, records management technicians and statistical officers.

1210 Administrative and regulatory occupations

This minor group comprises administrative and regulatory occupations, including executive assistants, human resources and recruitment officers, procurement and purchasing agents and officers, conference and event planners, and employment insurance and revenue officers. They are employed by governments, government agencies, corporations and associations; convention and conference centres and conference and event planning companies; and federal and provincial courts; or they may be self-employed.

12100 Executive assistants

Executive assistants coordinate administrative procedures, public relations activities and research and analysis functions for members of legislative assemblies, ministers, deputy ministers, corporate officials and executives, committees and boards of directors. They are employed by governments, corporations and associations.

Illustrative example(s)

- committee clerk
- corporate secretary
- executive assistant
- legislative assistant

Inclusion(s)

- special assistant

Exclusion(s)

- Administrative officers (13100)
- Conference and event planners (12103)
- Executive secretary (except legal and medical) (See 13110-Administrative assistants)

Main duties

This group performs some or all of the following duties:

- Establish and coordinate administrative policies and procedures for officials, committees and boards of directors

- Analyze incoming and outgoing memoranda, submissions and reports and prepare and coordinate the preparation and submission of summary briefs and reports to executives, committees and boards of directors
- Prepare agendas and make arrangements for committee, board and other meetings
- Conduct research, compile data, and prepare papers for consideration and presentation by executives, committees and boards of directors
- Meet with individuals, special interest groups and others on behalf of executives, committees and boards of directors to discuss issues and assess and recommend various courses of action
- Liaise with departmental and corporate officials and with other organizations and associations on behalf of executives, committees and boards of directors.

Employment requirements

- Completion of secondary school is required.
- Completion of a bachelor's degree in public administration, political science or a related discipline or the completion of a college diploma in administration is usually required.
- Experience in a related administrative occupation is usually required.

12101 Human resources and recruitment officers

Human resources and recruitment officers identify and advertise job vacancies, recruit candidates, and assist in the selection and reassignment of employees. They are employed throughout the private and public sectors.

Illustrative example(s)

- human resources officer
- personnel officer
- recruitment specialist
- staffing analyst
- staffing coordinator

Inclusion(s)

- employment supervisor

Exclusion(s)

- Human resources managers (10011)
- Human resources professionals (11200)
- Personnel clerks (14102)
- Training officer - company (See 41210-College and other vocational instructors)

Main duties

This group performs some or all of the following duties:

- Identify current and prospective staffing requirements, prepare and post notices and advertisements, and collect and screen applications
- Advise job applicants on employment requirements and on terms and conditions of employment
- Review candidate inventories and contact potential applicants to arrange interviews and transfers, redeployment and placement of personnel

- Recruit graduates of colleges, universities and other educational institutions
- Coordinate and participate in selection and examination boards to evaluate candidates
- Notify applicants of results of selection process and prepare job offers
- Advise managers and employees on staffing policies and procedures
- Organize and administer staff consultation and grievance procedures
- Determine eligibility to entitlements, arrange staff training and provide information or services such as employee assistance, counselling and recognition programs
- May manage and follow up on the opening of Occupational Health and Safety (OHS) files
- May supervise personnel clerks performing filing and record-keeping duties.

Employment requirements

- A college diploma in a field related to personnel management such as business administration, industrial relations, commerce or completion of a professional development program in personnel administration is usually required.
- Certification as a Certified Human Resources Professional (CHRP) may be required.
- Some experience in a clerical or administrative position related to personnel administration may be required.

Additional information

- Progression to specialist and management positions is possible with experience.

12102 Procurement and purchasing agents and officers

Procurement and purchasing agents and officers source and purchase general and specialized equipment, materials, business services and land or access rights for use or for further processing by their establishment. They are employed throughout the public and private sectors.

Illustrative example(s)

- contract management officer
- contracts officer
- energy asset surface land analyst
- furniture and furnishings purchaser
- government supply officer
- material management officer
- procurement officer
- purchasing agent
- sourcing specialist
- strategic sourcing analyst

Exclusion(s)

- Purchasing and inventory control workers (14403)
- Purchasing managers (10012)
- Retail and wholesale buyers (62101)

Main duties

This group performs some or all of the following duties:

Procurement agents and officers

- Evaluate risk, assess, prepare forecasts, scenarios and other factors concerning the supply market, and write reports and recommendations
- Provides research and input into the financial sourcing aspects of contracts and calls for tender when information is not readily available
- Identify high impact cost reduction opportunities
- Leverage the organization's buying power to optimize costs, access new suppliers, reduce lead times, and guarantee supply
- Develop and maintain relationships with existing and potential buyers and suppliers to the organization
- Respond to customer service inquiries and clarify requirements and provide information as needed.

Purchasing agents and officers

- Purchase general and specialized equipment and materials, business services and land or access rights for use or for further processing by their establishment
- Assess requirements of an establishment and develop specifications for equipment, materials and supplies to be purchased
- Invite tenders, consult with suppliers and review quotations
- Determine or negotiate contract terms and conditions, award supplier contracts or recommend contract awards
- Establish logistics of delivery schedules, monitor progress and contact clients and suppliers to resolve problems
- Negotiate land acquisition or access rights for public or private use, and may conduct field investigations of properties
- May hire, train or supervise purchasing clerks.

Employment requirements

- Procurement and purchasing agents and officers usually require a bachelor's degree or college diploma in business administration, commerce or economics.
- Procurement and purchasing agents and officers purchasing specialized materials or business services may require a related university degree or college diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasers of industrial products.
- A certificate in purchasing from the Purchasing Management Association of Canada (PMAC) may be required.
- Previous experience as a purchasing clerk or as an administrative clerk may be required.
- Certification from the International Right of Way Association (IRWA) may be required.
- Sourcing specialists and analysts usually require a bachelor's degree or college diploma in economics, logistics, operations management, finance, engineering, mathematics, or statistical analysis.
- Previous work experience in supply chain for sourcing specialists and analysts is usually required.

Additional information

- Progression to managerial positions is possible with experience.
- Procurement and purchasing agents and officers may specialize in the purchase of particular materials or business services such as furniture or access rights.

12103 Conference and event planners

Conference and event planners plan, organize and coordinate conferences, conventions, meetings, seminars, exhibitions, trade shows, festivals and other events. They are employed by tourism associations, trade and professional associations, convention and conference centres, governments and by conference and event planning companies, or they may be self-employed.

Illustrative example(s)

- conference and meeting planner
- conference planner
- conference services officer
- convention coordinator
- event planner
- festival organizer
- meeting planner
- special events organizer
- trade show planner

Exclusion(s)

- Administrative officers (13100)
- Advertising, marketing and public relations managers (10022)
- Executive assistants (12100)
- Professional occupations in advertising, marketing and public relations (11202)
- Sales and account representatives - wholesale trade (non-technical) (64101)

Main duties

This group performs some or all of the following duties:

- Meet with trade and professional associations and other groups to promote and discuss conference, convention and trade show services
- Meet with sponsors and organizing committees to plan the scope and format of events, to establish and monitor budgets and to review administrative procedures and progress of events
- Coordinate services for events, such as accommodation and transportation for participants, conference and other facilities, catering, signage, displays, translation, special needs requirements, audio-visual equipment, printing and security
- Organize registration of participants, prepare programs and promotional material, and publicize events
- Plan entertainment and social gatherings for participants
- Hire, train and supervise support staff required for events
- Ensure compliance with required by-laws
- Negotiate contracts for services, approve suppliers' invoices, maintain financial records, review final billing submitted to clients for events and prepare reports.

Employment requirements

- A university degree or college diploma in business, tourism or hospitality administration is usually required.
- Several years of experience in hospitality or tourism administration or in public relations are usually required and may substitute for formal education requirements.
- Certification relating to special events, meetings or conference management may be required.

12104 Employment insurance and revenue officers

Employment insurance and revenue officers administer and enforce laws and regulations related to tax revenue, employment insurance and other government benefit services. They are employed by government agencies.

Illustrative example(s)

- employment insurance agent
- employment insurance benefits control officer
- revenue officer
- tax collection officer
- tax enforcement officer

Inclusion(s)

- appeal officer

Exclusion(s)

- Financial auditors and accountants (11100)
- Government managers - economic analysis, policy development and program administration (40011)
- Government managers - health and social policy development and program administration (40010)
- Other financial officers (11109)
- Social policy researchers, consultants and program officers (41403)

Main duties

This group performs some or all of the following duties:

Excise tax revenue officers

- Audit accounting records to determine income, exemptions, payable taxes, compliance with reporting regulations and existence of fraud
- Examine accounting systems and internal controls of organizations
- Provide advice on reporting and evaluation methods for goods subject to taxation
- Prepare briefs and assist in searching and seizing records, and in preparing charges for court cases.

Government benefits services officers

- Determine the eligibility of persons applying for government benefits such as Employment Insurance (EI), Canada Pension Plan (CPP) and Old Age Security (OAS)
- Ascertain the facts on such issues as reasons for loss of employment and availability for work
- Monitor the payments of benefits and investigate claimants when there appears to be fraud or abuse.

Employment requirements

- A bachelor's degree or college diploma is usually required.
- Several years of related administrative or regulatory experience may be required.
- Completion of specialized government training is required.

Additional information

- Progression to managerial positions in these fields is possible with experience.

1211 Court reporters, transcriptionists, records management technicians and statistical officers

This minor group comprises court reporters, transcriptionists, including medical transcriptionists and those in related occupations; those in health information management occupations, records management technicians, and statistical officers and those in related research support occupations. They are employed by courts of law, provincial and federal legislative assemblies and committees; hospitals, medical clinics and doctors' offices; workplace health and safety boards, health record consulting firms and other health care establishments; and throughout the public and private sectors; or they may be self-employed.

12110 Court reporters, medical transcriptionists and related occupations

Court reporters record and transcribe verbatim the proceedings of courts, legislative assemblies and committees, and prepare transcripts for use by judges, tribunals and quasi-judicial panels. They are employed by courts of law, provincial and federal legislative assemblies and committees, or they may be self-employed. Medical transcriptionists record, transcribe and edit dictation by physicians and other health care providers, surgical proceedings, health-related reports and other medical documentation. They are employed by hospitals, medical clinics and doctors' offices, or they may be self-employed. Closed captioners, braille technicians and other transcriptionists are included in this unit group.

Illustrative example(s)

- braille technician
- closed captioner
- court reporter
- Hansard reporter
- medical transcriptionist
- transcriptionist

Exclusion(s)

- Legal administrative assistants (13111)
- Medical administrative assistants (13112)

Main duties

This group performs some or all of the following duties:

Court reporters

- Record verbatim proceedings of courtroom using electronic stenograph machine or stenomask
- Respond to requests during court sessions to read back verbatim evidence
- Transcribe recorded proceedings in accordance with established formats

- Verify accuracy of transcripts by checking copy against original record of proceedings and accuracy of rulings by checking with judge
- Research and locate quotes to ensure accuracy
- Respond to requests for transcripts ordered by judges, lawyers or the public
- File and store shorthand notes of court session.

Medical transcriptionists

- Transcribe recorded dictation in accordance with established formats or written documentation from medical reports, correspondence, health records and patient information
- Proofread work for typographical and grammatical errors
- Edit transcripts for missing or incorrect content and formatting.

Employment requirements

- Court reporters require completion of secondary school.
- Completion of a college or other program in court reporting is usually required and the Chartered Shorthand Reporter (CSR) certificate may be required for court reporters.
- Medical transcriptionists require completion of secondary school.
- Completion of a recognized medical transcription program is usually required and the Certified Medical Transcriptionist (CMT) certificate may be required for medical transcribers.
- Occupations working in Braille usually require education in Unified English Braille (UEB) competence and related studies of 1-2 years.

Additional information

- There is some mobility between occupations in this unit group and other occupations requiring similar knowledge of legal or medical terminology, such as legal or medical administrative positions.

12111 Health information management occupations

Health information management workers collect, code, record, review and manage health information. They are employed by hospitals, clinics, workplace health and safety boards, health record consulting firms and other health care establishments. Health information management workers who are supervisors are included in this unit group.

Illustrative example(s)

- health information management supervisor
- health information management technician
- health records technician
- medical records unit supervisor

Exclusion(s)

- Health information management consultant (See 11201-Professional occupations in business management consulting)
- Health records administrator (See 10019-Other administrative services managers)
- Health records clerk (See 14100-General office support workers)
- Records management technicians (12112)

Main duties

This group performs some or all of the following duties:

- Classify and code diseases according to an established classification system
- Collect, code, cross-reference and store health records and related information
- Abstract, assemble and analyze clinical data and related demographic information from health records according to established policies and procedures
- Operate information systems to maintain indexes for classification systems and to manage and retrieve health records information
- Prepare medical, social and administrative statistics
- Use and maintain software or information technology systems
- May implement and update health information systems and also provide support and training
- May supervise other health information management technicians and related workers.

Employment requirements

- Health information management technicians and related workers require completion of a recognized two-year college diploma program in health record technology or health information management.
- Health information management technicians and related workers are eligible to write the Canadian Health Information Management Association national certification examination which may be required by employers.

Additional information

- Progression to supervisory positions is possible with experience.
- Progression to management positions is possible with additional training and experience.

12112 Records management technicians

Records management technicians operate and maintain systems for the collection, classification, retrieval and retention of records, images, documents and information. They are employed throughout the private and public sectors.

Illustrative example(s)

- information management technician
- microfilm records searcher
- records classifier
- records digitizing technician
- records technician

Exclusion(s)

- Health information management occupations (12111)
- Health records clerk (See 14100-General office support workers)
- Library and public archive technicians (52100)
- Records management specialist (See 11201-Professional occupations in business management consulting)
- Records management supervisor (See 12010-Supervisors, general office and administrative support workers)

Main duties

This group performs some or all of the following duties:

- Implement and update records classification, retention and disposal scheduling plans
- Classify, code, cross-reference, log and store records
- Develop document inventories and maintain indexes for classification systems
- Operate information retrieval systems to research and extract records according to established guidelines in response to requests
- Label, prepare and transfer information files according to established records management life-cycle procedures and schedules
- Maintain access lists for security classified records
- Compile statistics and reports on activities within records management services.

Employment requirements

- Records management technicians usually require completion of a two- to three-year college program in information or records management technology.
- Two to three years' experience in a records management environment may be required.

Additional information

- Progression to supervisory positions is possible with additional training and experience.

12113 Statistical officers and related research support occupations

Statistical officers and workers in related research support occupations provide statistical and research support services to a wide range of businesses and organizations. These workers conduct statistical routines, monitor trends, compile data and prepare charts, graphs, summaries and reports in support of organizational information needs and research activities. They are employed throughout the public and private sectors. Statistical officers who are also supervisors are included in this unit group.

Illustrative example(s)

- research assistant - generalist (except university)
- research support officer
- social research assistant (except university)
- statistical officer
- technical research assistant (except post-secondary)

Exclusion(s)

- Data entry clerks (14111)
- Mathematicians, statisticians and actuaries (21210)
- Policy and program researchers, consultants and officers (4140)
- Survey interviewers and statistical clerks (14110)

Main duties

This group performs some or all of the following duties:

- Compile tables, charts, graphs and summarized statistics for integration in research papers and reports
- Process data using statistical software to conduct basic analyses of trends in support of research activities

- Collect, consolidate, cross-tabulate and format data from various sources to prepare draft reports for review by supervisors or researchers
- Assist in collection and tracking of data from monitored use of services and provide information to management and client groups
- May prepare technical documents and monitoring reports on volumetrics and other trend analyses
- May supervise statistical and research support workers.

Employment requirements

- Completion of secondary school is required.
- A college diploma or undergraduate degree in a social science, commerce, statistics or a related field is usually required.

Additional information

- Progression to supervisory positions is possible with experience. Progression to professional occupations in statistics and research usually requires completion of a postgraduate degree.

122 Accounting, insurance and related business administrative occupations

This sub-major group comprises accounting, insurance and related business administrative occupations, including accounting technicians, bookkeepers, insurance adjusters, claims examiners, insurance underwriters, assessors, valuers, appraisers and customs, ship and other brokers.

1220 Accounting, insurance and related business administrative occupations

This minor group comprises accounting, insurance and related business administrative occupations, including accounting technicians, bookkeepers, insurance adjusters, claims examiners, insurance underwriters, assessors, valuers, appraisers and customs, ship and other brokers. They are employed in claims departments of insurance companies and as independent adjusters; at head and branch offices of insurance companies; by government agencies, real estate firms and other private companies; by customs, ship and other brokerage establishments; and throughout the public and private sectors; or they may be self-employed.

12200 Accounting technicians and bookkeepers

Accounting technicians and bookkeepers maintain complete sets of books, keep records of accounts, verify the procedures used for recording financial transactions, and provide personal bookkeeping services. They are employed throughout the private and public sectors, or they may be self-employed.

Illustrative example(s)

- accounting bookkeeper
- accounting technician
- bookkeeper
- finance technician

Exclusion(s)

- Accounting and related clerks (14200)
- Banking, insurance and other financial clerks (14201)
- Financial auditors and accountants (11100)
- Payroll administrators (13102)

Main duties

This group performs some or all of the following duties:

- Keep financial records and establish, maintain and balance various accounts using manual and computerized bookkeeping systems
- Post journal entries and reconcile accounts, prepare trial balance of books, maintain general ledgers and prepare financial statements
- Calculate and prepare cheques for payrolls and for utility, tax and other bills
- Complete and submit tax remittance forms, workers' compensation forms, pension contribution forms and other government documents
- Prepare tax returns and perform other personal bookkeeping services
- Prepare other statistical, financial and accounting reports.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in accounting, bookkeeping or a related field
or
Completion of two years (first level) of a recognized professional accounting program (e.g., Chartered Accounting, Certified General Accounting)
or
Courses in accounting or bookkeeping combined with several years of experience as a financial or accounting clerk are required.

Additional information

- Progression to professional accounting occupations is possible with additional training.

12201 Insurance adjusters and claims examiners

Insurance adjusters investigate insurance claims and determine the amount of loss or damages covered by insurance policies. They are employed in claims departments of insurance companies or as independent adjusters. Insurance claims examiners examine claims investigated by insurance adjusters and authorize payments. They are employed at head offices or branches of insurance companies.

Illustrative example(s)

- adjuster
- claims examiner
- claims representative
- insurance adjuster

Inclusion(s)

- production examiner

Main duties

This group performs some or all of the following duties:

Insurance adjusters

- Investigate circumstances surrounding insurance claims to determine validity of claim
- Inspect automobile, home or other property damage

- Take statements and consult with claimants, accident witnesses, doctors and other relevant individuals and examine records or reports
- Determine amount of loss or damages covered by insurance policies
- Negotiate settlement of claims
- Prepare adjustment reports.

Insurance claims examiners

- Review, examine, calculate and authorize insurance claims investigated by insurance adjusters
- Examine adjusters' reports and similar insurance claims or precedents to determine extent of insurance coverage
- Ensure claims are valid and settlements are made according to company practices and procedures
- Consult lawyers, doctors or other relevant individuals to discuss insurance claims
- Approve automobile, fire, life, disability, dental or other insurance claims.

Employment requirements

- Completion of secondary school is required.
- A bachelor's degree, college diploma or some post-secondary education or
Several years of experience as a clerk in the claims department or other general insurance experience is required.
- Several years of on-the-job training and completion of insurance industry courses and training programs are required.
- Independent adjusters require a provincial licence issued by the Superintendent of Insurance in the province or territory of employment.

Additional information

- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance adjusters and claims examiners to professional recognition as a Chartered Insurance Professional (CIP), and with additional university courses, as a Fellow Chartered Insurance Professional (FCIP).

12202 Insurance underwriters

Insurance underwriters review and evaluate insurance applications to determine insurance risks, insurance premiums and extent of insurance coverage according to company policies. They are employed at head and branch offices of insurance companies.

Illustrative example(s)

- group underwriter
- insurance underwriter
- liability underwriter
- property underwriter

Inclusion(s)

- casualty insurance products analyst-designer
- insurance rating analyst

Exclusion(s)

- Insurance agents and brokers (63100)
- Insurance manager (See 10020-Insurance, real estate and financial brokerage managers)

Main duties

This group performs some or all of the following duties:

- Review individual and group applications for automobile, fire, health, liability, life, property, marine, aircraft and other insurance
- Evaluate new and renewal applications to determine insurance risks, insurance premiums, extent of insurance coverage and other conditions of the insurance contract using medical reports, rate tables and other documents and reference materials; adjust premiums, coverage or risk itself to make acceptance of new and renewal applications possible
- Approve sale of insurance policies and ensure compliance with government regulations
- Provide recommendations on individual or group insurance plan designs
- Provide underwriting advice and answer inquiries from clients and from insurance agents, consultants and other company personnel
- Prepare underwriting reports and update insurance forms when necessary.

Employment requirements

- Completion of secondary school and some general insurance experience
or
A bachelor's degree, college diploma or some post-secondary education is required.
- Several years of on-the-job training and completion of insurance industry underwriting courses and training programs are required.

Additional information

- Progression to management positions in the insurance industry is possible with experience.
- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance underwriters to professional recognition as a Chartered Insurance Professional (CIP) and, with additional university courses, as a Fellow, Chartered Insurance Professional (FCIP).

12203 Assessors, business valuers and appraisers

Assessors and appraisers determine the value of land, businesses, estates and other real property, for purposes of sale, purchase, taxation or disposal of assets. Appraisers also determine the value of personal and household items. Business valuers quantify the value of a business, its securities or its intangible assets. Assessors, business valuers and appraisers are employed by government agencies, real estate firms and other private companies, or they may be self-employed.

Illustrative example(s)

- accredited appraiser
- business valuator
- chartered business valuator (CBV)
- property assessor
- property valuator
- real estate appraiser

Inclusion(s)

- real estate analyst

Exclusion(s)

- Financial and investment analysts (11101)
- Financial auditors and accountants (11100)
- Insurance adjusters and claims examiners (12201)
- Jewellery appraiser (See 62202-Jewellers, jewellery and watch repairers and related occupations)
- Land agent (See 12102-Procurement and purchasing agents and officers)
- Market analyst - non-financial (See 41402-Business development officers and market researchers and analysts)
- Property administrators (13101)
- Right-of-way agent (See 12102-Procurement and purchasing agents and officers)

Main duties

This group performs some or all of the following duties:

Assessors

- Assess value of land, building, structures, machinery, equipment and property improvements for purposes of taxation, grants and regional planning and prior to sale or purchase
- Review and analyze data such as past sales, title searches, engineering and alignment maps, soil maps, subdivision plans, water and sewer plans, leasing cost data and easements
- Explain assessment process to ratepayers
- May specialize in advising and consulting in a specific field of assessment such as residential, commercial, industrial, institutional or farm lands.

Business valuers

- Collect and analyze financial records of a business, such as financial statements, budgets, projections and sales data, to assess its competitiveness or to estimate its market value
- Prepare reports for estate planning, matrimonial litigation, insurance and business losses
- Appear as an expert witness before courts, security regulators and other regulatory boards and commissions.

Appraisers

- Appraise value of property, building, industrial and commercial machinery and equipment and personal and household items
- Prepare appraisal reports for lending agencies, insurance companies, government departments, courts, attorneys, creditors, buyers or auctioneers.

Employment requirements

- Assessors require a college diploma in municipal assessment and Accreditation with the municipal assessment association of the province.

- Business valuers usually require a bachelor's degree or college diploma in accounting, business or commerce and Accreditation with the Canadian Institute of Chartered Business Valuers based on successful completion of its business and security valuation program.
- Appraisers require a college diploma or vocational training in the field of appraisal or Several years of experience in a position related to the field of appraisal.
- In Quebec, membership with l'Ordre des évaluateurs agréés du Québec (OEAQ) is required to use the title chartered appraiser.
- Real estate appraisers usually require several years of experience as a real estate agent, right-of-way agent or property administrator and may require Canadian residential appraiser certification.
- Appraisers of residential, commercial or industrial property require accreditation with the Appraisal Institute of Canada.

Additional information

- Progression to management positions in each field is possible with experience.
- Assessors may specialize in advising and consulting in a specific field of assessment such as residential, commercial, industrial, institutional or farm lands.
- Appraisers may specialize in a specific type of appraisal such as real estate appraisal.

13 Administrative occupations and transportation logistics occupations

This major group comprises administrative occupations, transportation and production logistics coordinators and customs brokers, and related broker occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

131 Administrative occupations

This sub-major group comprises administrative occupations, including administrative, property and payroll officers, as well as office administrative assistants (general, legal and medical).

1310 Administrative, property and payroll officers

This minor group comprises administrative, property and payroll officers, including administrative officers, property administrators and payroll administrators. They are employed by governments, government agencies, corporations and associations; property, real estate and strata services management companies and property development companies.

13100 Administrative officers

Administrative officers oversee and implement administrative procedures, establish work priorities, conduct analyses of administrative operations and coordinate acquisition of administrative services such as office space, supplies and security services. They are employed throughout the public and private sectors. Administrative officers who are supervisors are included in this unit group.

Illustrative example(s)

- access to information and privacy officer
- administrative officer
- administrative services coordinator
- forms management officer
- office administrator
- office manager
- office services coordinator
- planning officer
- records analyst - access to information
- surplus assets officer
- university admissions officer

Inclusion(s)

- communications service coordinator
- exam invigilator - post-secondary institution
- exam supervisor - post-secondary institution
- implementation officer
- liaison officer
- public trustee
- regional services chief
- relocation commissioner

Exclusion(s)

- Administrative services manager (See 10019-Other administrative services managers)
- Conference and event planners (12103)
- Executive assistants (12100)
- Property administrators (13101)

Main duties

This group performs some or all of the following duties:

- Oversee and coordinate office administrative procedures and review, evaluate and implement new procedures
- Establish work priorities, delegate work to office support staff, and ensure deadlines are met and procedures are followed
- Carry out administrative activities associated with admissions to post-secondary educational institutions
- Administer policies and procedures related to the release of records in processing requests under government access to information and privacy legislation
- Coordinate and plan for office services, such as accommodation, relocations, equipment, supplies, forms, disposal of assets, parking, maintenance and security services
- Conduct analyses and oversee administrative operations related to budgeting, contracting and project planning and management processes
- Assist in preparation of operating budget and maintain inventory and budgetary controls

- Assemble data and prepare periodic and special reports, manuals and correspondence
- May supervise records management technicians and related staff.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business or public administration may be required.
- Experience in a senior clerical or executive secretarial position related to office administration is usually required.
- Project management certification may be required by some employers.

Additional information

- Progression to administrative service management positions is possible with experience.

13101 Property administrators

Property administrators perform administrative duties and coordinate activities related to the management and rental of investment property and real estate on behalf of property and strata property owners. They are employed by property, real estate and strata services management companies, property development companies and by government.

Illustrative example(s)

- accommodation officer
- apartment rental agent
- housing project manager
- property administrator
- property leasing coordinator
- property rentals manager

Inclusion(s)

- landlord/landlady

Exclusion(s)

- Building superintendent (See 73201-General building maintenance workers and building superintendents)
- Facility operation and maintenance managers (70012)
- Real estate agents and salespersons (63101)

Main duties

This group performs some or all of the following duties:

- Negotiate or approve rental or lease of various properties in a portfolio on behalf of property owners and ensure that terms of lease agreement are met
- Prepare and administer contracts for provision of property services, such as cleaning and maintenance, security services and alarm systems
- Coordinate the implementation of repairs, maintenance and renovations carried out on buildings and monitor progress and cost of work for property owners

- Compile and maintain records on operating expenses and income, prepare reports and review rents to ensure they are at market value
- Ensure that trouble calls received from clients or tenants are acted upon
- Administer damage deposits
- May hire and supervise rental agents, property clerks, building superintendents or other support staff performing operational, clerical or maintenance duties.

Employment requirements

- Completion of secondary school is required in all provinces and territories except for British Columbia.
- A language proficiency index is required in British Columbia.
- Property administrators must be a minimum of nineteen years of age in British Columbia.
- Completion of training courses or a vocational program in property or strata management or real estate may be required.
- Several years of administrative experience as a property clerk, contract clerk, or administrative officer are usually required.
- Strata property managers must hold a licence in British Columbia.

13102 Payroll administrators

Payroll administrators collect, verify and process payroll information, determine pay and benefit entitlements for employees, maintain accurate payroll records, and provide payroll information within a department, company or other establishment. They are employed by payroll administration companies and by establishments throughout the public and private sectors.

Illustrative example(s)

- benefits officer - payroll administration
- pay advisor
- pay and benefits administrator
- pay and benefits clerk
- pay clerk
- payroll clerk
- payroll officer
- salary administration officer

Exclusion(s)

- Benefits officer - government services (See 12104-Employment insurance and revenue officers)
- Human resources and recruitment officers (12101)
- Payroll clerk supervisor (See 12011-Supervisors, finance and insurance office workers)
- Personnel clerks (14102)

Main duties

This group performs some or all of the following duties:

- Maintain and update employee information, such as records of employee attendance, leave and overtime to calculate pay and benefit entitlements, in Canadian and other currencies, using manual or computerized systems

- Prepare and verify statements of earnings for employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishments and insurance and pension plans
- Prepare, verify and process all employee payroll related payments, including regular pay, benefit payments, and special payments such as bonuses and vacation pay
- Complete, verify and process forms and documentation for administration of benefits such as pension plans, leaves, share savings, employment and medical insurance
- Prepare payroll related filings and supporting documentation, such as year-end tax statements, pension, Records of Employment and other statements
- Provide information on payroll matters, benefit plans and collective agreement provisions
- Compile, review, and monitor statistical reports, statements, and summaries related to pay and benefits accounts
- Prepare and balance period-end reports and reconcile issued payrolls to bank statements
- Identify and resolve payroll discrepancies
- May be responsible for the development and/or implementation of payroll policies, procedures or processes.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses in accounting, bookkeeping or payroll administration or Experience in payroll administration is usually required.
- Payroll association certification may be required.
- Experience using a payroll system or software may be required.

Additional information

- Progression to supervisory positions is possible with experience.

1311 Office administrative assistants - general, legal and medical

This minor group comprises office administrative assistants such as general administrative assistants, legal administrative assistants and medical administrative assistants. They are employed in law offices, legal departments of large firms, real estate companies, land title offices, and municipal, provincial and federal courts; doctor's offices, hospitals, medical clinics and other medical settings; and throughout the public and private sectors.

13110 Administrative assistants

Administrative assistants perform a variety of administrative duties in support of managerial and professional employers. They are employed throughout the public and private sectors.

Illustrative example(s)

- administrative assistant
- executive secretary (except legal and medical)
- office administrative assistant
- private secretary
- secretary (except legal and medical)
- technical secretary

Inclusion(s)

- secretary-clerk

Exclusion(s)

- Court reporters, medical transcriptionists and related occupations (12110)
- Executive assistants (12100)
- Legal administrative assistants (13111)
- Medical administrative assistants (13112)
- Office manager (See 13100-Administrative officers)

Main duties

This group performs some or all of the following duties:

- Prepare, key in, edit and proofread correspondence, invoices, presentations, brochures, publications, reports and related material from machine dictation and handwritten copy
- Open and distribute incoming regular and electronic mail and other material and coordinate the flow of information internally and with other departments and organizations
- Schedule and confirm appointments and meetings of employer
- Order office supplies and maintain inventory
- Answer telephone and electronic enquiries and relay telephone calls and messages
- Set up and maintain manual and computerized information filing systems
- Determine and establish office procedures
- Greet visitors, ascertain nature of business and direct visitors to employer or appropriate person
- Record and prepare minutes of meetings
- Arrange travel schedules and make reservations
- May compile data, statistics and other information to support research activities
- May supervise and train office staff in procedures and in use of current software
- May organize conferences.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- or two-year college or other program for administrative assistants or secretaries or
Previous clerical experience is required.

13111 Legal administrative assistants

Legal administrative assistants perform a variety of secretarial and administrative duties in law offices, legal departments of large firms, real estate companies, land title offices, municipal, provincial and federal courts and government.

Illustrative example(s)

- administrative assistant - legal
- corporate law legal assistant
- legal assistant

- legal assistant - criminal law
- legal secretary
- litigation legal assistant
- litigation secretary
- real estate secretary

Exclusion(s)

- By-law clerk (See 14301-Correspondence, publication and regulatory clerks)
- Court recorder (See 12110-Court reporters, medical transcriptionists and related occupations)
- Paralegal and related occupations (See 42200-Paralegals and related occupations)

Main duties

This group performs some or all of the following duties:

- Prepare and key in correspondence and legal documents, such as deeds, wills, affidavits and briefs, from handwritten copy, shorthand and machine dictation using computers
- Review and proofread documents and correspondence to ensure compliance with legal procedures and grammatical usage
- Schedule appointments, meetings and conferences for employer
- Set up and maintain filing systems, utilizing knowledge of legal records and procedures and frequently controlling confidential materials and documents
- Open and distribute regular and electronic incoming mail and other material and coordinate the flow of information internally and with other departments or organizations
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in the use of current software
- May attend court, meetings or conferences to take notes, minutes and dictation
- May perform other general office work as required including preparing financial statements.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- or two-year college or other program for secretaries or legal secretaries is usually required.

13112 Medical administrative assistants

Medical administrative assistants perform a variety of secretarial and administrative duties in doctor's offices, hospitals, medical clinics and other medical settings.

Illustrative example(s)

- administrative assistant - medical
- medical secretary
- ward secretary

Exclusion(s)

- Health information management occupations (12111)
- Medical records clerk (See 14100-General office support workers)
- Medical transcriptionist (See 12110-Court reporters, medical transcriptionists and related occupations)

Main duties

This group performs some or all of the following duties:

- Schedule and confirm medical appointments and receive and communicate messages for medical staff and patients
- Enter and format electronically based medical reports and correspondence and prepare spreadsheets and documents for review
- Interview patients in order to complete forms, documents and case histories
- Complete insurance and other claim forms
- Initiate and maintain confidential medical files and records
- Prepare draft agendas for meetings and take, transcribe and distribute minutes
- Prepare financial statements and billing
- Establish and maintain various internal office administrative support procedures such as document tracking and filing and monthly reporting
- Order supplies and maintain inventory
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in use of current software.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- or two-year college program or other specialized courses for secretaries or medical secretaries is usually required.

132 Transportation and production logistics coordinators and customs brokers and related broker occupations

This sub-major group comprises transportation and production logistics coordinators and customs brokers and related broker occupations.

1320 Transportation and production logistics coordinators and customs brokers and related broker occupations

This minor group comprises transportation and production logistics coordinators and customs brokers and related broker occupations. They are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments; and by customs, ship and other brokerage establishments; and throughout the public and private sectors; or they may be self-employed.

13200 Customs, ship and other brokers

Customs brokers clear goods through customs and to their destination on behalf of importer and exporter clients. Shipbrokers buy and sell cargo space on ships and buy and sell ships, yachts and other watercraft on behalf of clients. This unit group also includes other brokers who negotiate commercial transactions, logistics or other services, not elsewhere classified, between parties on behalf of clients. They are employed by customs, ship or other brokerage establishments or may be self-employed.

Illustrative example(s)

- cargo broker
- chartered shipbroker
- customs broker
- gas broker
- licensed customs broker
- shipbroker

Inclusion(s)

- ship line agent

Exclusion(s)

- Insurance broker (See 63100-Insurance agents and brokers)
- Insurance, real estate and financial brokerage managers (10020)
- Securities agents, investment dealers and brokers (11103)

Main duties

This group performs some or all of the following duties:

Customs brokers

- Prepare and process import/export documents and other forms on behalf of clients according to customs regulations, laws and procedures
- Sign import/export documents on behalf of client, using power of attorney
- Arrange for payment of duties, taxes, storage and transportation of imported goods and bonds to cover duty goods
- Quote duty and tax rates on commodities for clients
- Provide advice to clients on export and import restrictions, tariff systems, letters of credit, insurance requirements and other custom related matters
- May represent client before administrative tribunals or in other dealings with government officials.

Shipbrokers

- Buy and sell cargo space on ships on behalf of individuals, companies and governments
- Consult trade publications and other sources to provide information to clients on available cargo space, destinations, rates and departure locations and times, and arrange ship charters for clients
- Negotiate rates and terms and prepare contracts and other papers
- Buy and sell ships, yachts and other watercraft on behalf of clients
- Inspect vessels, explain features and negotiate price when purchasing or selling for clients
- Arrange for insurance coverage for cargo or for ships
- Arrange for registration and licensing of ships.

Employment requirements

- Completion of secondary school, and some post-secondary education in commerce or a related field is required.

- Customs brokers require several years of on-the-job training and completion of a customs brokers training program through the International Federation of Customs Brokers Association.
- A customs broker licence, issued by the Canada Border Services Agency, is required for an individual or company to operate a customs brokerage business.
- Shipbrokers selling cargo space on ships usually require several years of on-the-job training or related experience such as shipping company scheduling experience. Shipbrokers selling watercraft usually require in-depth experience with, and knowledge of, various watercraft.
- Correspondence courses from the Institute of Chartered Shipbrokers are available for shipbrokers.

Additional information

- There is no mobility between the different types of brokers in this unit group.

13201 Production and transportation logistics coordinators

Production logistics coordinators coordinate and expedite the flow of work within an establishment, prepare work and production schedules and monitor the progress of production and construction projects. Transportation logistics coordinators coordinate and monitor the movement of products and ensure that products are shipped and received on schedule. They are employed by manufacturing and construction companies and other industrial establishments.

Illustrative example(s)

- dispatch logistician
- freight forwarding logistician
- production coordinator
- production scheduler
- supply chain coordinator - production
- supply control coordinator

Exclusion(s)

- Production logistics workers (14402)
- Purchasing and inventory control workers (14403)
- Shippers and receivers (14400)
- Storekeepers and partspersons (14401)
- Supervisors, supply chain, tracking and scheduling coordination occupations (12013)

Main duties

This group performs some or all of the following duties:

Production logistics coordinators

- Plan, organize and oversee operational logistics of supply-chain work units or departments
- Consult with production supervisor to schedule production runs in a cost and time-efficient manner
- Communicate regularly with other production coordinators, warehouse, production and construction supervisors and purchasing and inventory clerks to coordinate activities between warehouses, production floors, construction sites or other supply chain work units or departments
- Maintains inventory of materials and parts needed to complete production
- Prepare and maintain various reports on the progress of work, materials used, rates of production and other production information, using manual or computerized systems.

Transportation logistics coordinators

- Coordinate and monitor logistics of the movement of parts, supplies and materials within an establishment and ensure that supplies, materials and products are shipped and received on schedule
- Prepare and process all customs documents for International & U.S. shipments.

Employment requirements

- Completion of a post-secondary education program of less than two years in Business or Supply Chain Management or extensive experience as a dispatcher, production clerk or scheduling clerk is usually required.

Additional information

- Progression to supervisory positions is possible with experience.

14 Administrative and financial support and supply chain logistics occupations

This major group comprises administrative and financial support and supply chain logistics occupations, including office support and data entry occupations; financial, insurance and related administrative support workers; library, correspondence and other clerks, and supply chain logistics, tracking and scheduling coordination occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

141 Office, court, and data support occupations

This sub-major group comprises office, court, and data support occupations, including general office support workers, receptionists, personnel clerks, court clerks and related court services occupations, as well as survey, statistical and data entry occupations.

1410 Office support and court services occupations

This minor group comprises office support and court services occupations, including general office support workers, receptionists, personnel clerks, court clerks and related court services occupations. They are employed by hospitals and medical, dental and other offices; in personnel departments; by federal, provincial, territorial and municipal courts; and in offices throughout the public and private sectors.

14100 General office support workers

General office support workers prepare correspondence, reports, statements and other material, operate office equipment, answer telephones, verify, record and process forms and documents such as contracts and requisitions and perform general clerical duties according to established procedures. They are employed in offices throughout the public and private sectors.

Illustrative example(s)

- administrative clerk
- aircraft records clerk
- file and classification clerk
- filing clerk
- general office worker
- medical records clerk

- office assistant
- office clerk
- records filing-system clerk
- technical records clerk
- ward clerk - hospital
- warranty clerk

Inclusion(s)

- course coordinator

Exclusion(s)

- Accounting and related clerks (14200)
- Administrative assistants (13110)
- Administrative officers (13100)
- Court clerks and related court services occupations (14103)
- Data entry clerks (14111)
- Personnel clerks (14102)
- Receptionists (14101)
- Records management technicians (12112)
- Supervisors, general office and administrative support workers (12010)

Main duties

This group performs some or all of the following duties:

General office support workers

- Respond to telephone, in person or electronic enquiries or forward to appropriate person
- Prepare correspondence, reports, statements, forms, presentations, applications and other documents
- Process incoming and outgoing mail, manually or electronically
- Photocopy and collate documents for distribution, mailing and filing
- Send and receive messages and documents using fax machine or electronic mail
- Maintain inventory of office supplies, order supplies as required and arrange for servicing of office equipment
- Assist in preparing meeting agendas, attend meetings, and record minutes
- Assist with administrative procedures such as budget submissions, contracts administration and work schedules
- May sort, process and verify receipts, expenditures, forms and other documents
- May organize the flow of work for other office support workers
- May perform basic bookkeeping tasks such as preparing invoices and bank deposits.

File clerks

- Scan, sort and file documents according to established guidelines
- Locate, retrieve, or make copies of documents from files as requested and maintain records of filed and removed materials
- Track documents removed from files to ensure that loan out documents are returned.

Employment requirements

- Completion of secondary school is usually required.
- Completion of secondary school or college business or commercial courses is usually required.

Additional information

- Progression to supervisory or office management positions is possible with experience.
- Progression to officer level positions is possible with additional training and experience.

14101 Receptionists

Receptionists greet people arriving at offices, hospitals and other establishments, direct visitors to appropriate person or service, answer and forward telephone calls, take messages, schedule appointments and perform other clerical duties. They are employed by hospitals, medical and dental offices and other offices throughout the public and private sectors. Telephone operators are included in this group.

Illustrative example(s)

- answering service operator
- appointment clerk
- business receptionist
- dental receptionist
- hospital admitting clerk
- medical receptionist
- office reception clerk
- receptionist
- switchboard operator
- telephone operator
- telephone service assistant
- telereceptionist
- toll operator

Inclusion(s)

- mail and message distribution clerk
- medical office assistant

Exclusion(s)

- 911 dispatcher (14404-Dispatchers)
- Hotel front desk clerks (64314)
- Other customer and information services representatives (64409)
- Supervisors, general office and administrative support workers (12010)

Main duties

This group performs some or all of the following duties:

Receptionists

- Greet people coming into offices and other establishments, direct them to the appropriate contacts or services, provide general information in person and by phone, and may perform clerical duties and maintain front desk security and security access lists
- Schedule appointments, using manual or computerized systems
- Record bookings, handle credit card checks, receive payment, issue receipts.

Hospital admitting clerks

- Interview patients to obtain and process information required to provide hospital and medical services
- Greet patients, schedule appointments, using manual or computerized systems, receive and record payment for services, and direct patients to appropriate areas.

Switchboard and answering service operators

- Operate a telephone system or switchboard to answer, screen and forward telephone calls, take messages and provide information as required, and may perform clerical duties
- Answer telephones and record and relay messages.

Telephone operators

- Operate telephone systems to advance and complete customers' telephone calls such as long distance, pay telephone, mobile radio/telephone and person to person calls, arrange teleconferences, provide relay phone service to persons with disabilities, and may calculate and record billing information.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training may be provided.

Additional information

- Some receptionists are required to be bilingual or multilingual to perform their duties.
- Progression to supervisory positions is possible with experience.

14102 Personnel clerks

Personnel clerks assist personnel officers and human resources specialists and compile, maintain and process information relating to staffing, recruitment, training, labour relations, performance evaluations and classifications. They are employed in personnel departments throughout the private and public sectors.

Illustrative example(s)

- classification clerk - human resources
- employment clerk
- human resources assistant
- human resources clerk
- labour relations clerk
- personnel services clerk

- staffing clerk
- training clerk

Exclusion(s)

- Human resources and recruitment officers (12101)
- Human resources professionals (11200)
- Payroll administrators (13102)
- Supervisors, general office and administrative support workers (12010)

Main duties

This group performs some or all of the following duties:

- Process, verify and register documentation relating to personnel activities such as staffing, recruitment, training, grievances, performance evaluations and classifications
- Maintain and update manual and computerized filing and registration systems, and compile and prepare reports and documents relating to personnel activities
- Respond to telephone and written enquiries from staff and the general public regarding personnel matters
- Arrange for advertising or posting of job vacancies, assist in screening and rating of job applicants, and conduct reference checks
- Administer and score employment tests, such as keyboarding and proofreading tests
- Arrange for in-house and external training activities.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses in personnel administration may be required.
- Some clerical experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.
- Progression to officer level positions is possible with additional training and experience.

14103 Court clerks and related court services occupations

Court clerks and workers in related court services occupations perform administrative, security, and other support functions for courts of law such as scheduling trials, processing service fees, calling court to order, preparing court dockets and maintaining exhibits, recording trial proceedings and maintaining court records. They also facilitate court security and public safety, liaise with law enforcement organizations, and provide support to the judiciary. They are employed by federal, provincial, territorial and municipal courts and by police forces.

Illustrative example(s)

- court administrator
- court clerk
- court clerk supervisor
- court clerk-crier
- court officer
- criminal court clerk

- judicial clerk
- provincial court clerk

Exclusion(s)

- Administrative assistant - judicial (See 13111-Legal administrative assistants)
- Court reporters, medical transcriptionists and related occupations (12110)
- Judicial assistant (See 13111-Legal administrative assistants)
- Law clerk (See 42200-Paralegals and related occupations)
- Sheriffs and bailiffs (43200)

Main duties

This group performs some or all of the following duties:

Court clerks

- Call courts of law to order, read charges, take pleas from defendants, swear in witnesses and perform other clerical functions in the courtrooms
- Prepare court files, court dockets and other documents
- Record main court proceedings, including pleas, names of witnesses, dates, times and rulings
- Manage care and custody of court exhibits
- Prepare documents for and participate in jury selection
- Update and maintain court office paper and electronic indexes and files on actions taken by court or in response to court decisions
- Receive, disburse and account for fines, fees and trust monies
- Assist the public in court offices.

Court officers

- Stock courtrooms with necessary materials before trials
- Escort the judge to the courtroom
- Maintain the security and safety of the judge and courtroom
- Monitor proceedings and uphold the rules and procedures of the court
- Read charges and take pleas from defendants
- Transport prisoners to and from the court house and detention centres, psychiatric hospitals, police divisions, or elsewhere
- Maintain the security of prisoners in the cell area of courthouses and while escorting prisoners to and from courtrooms or elsewhere
- Maintain prisoner records.

Court administrators

- Coordinate administrative services and establish work priorities for court staff
- Supervise court clerks and other court services occupations
- Schedule court trials, pre-trial conferences and hearings
- Oversee the maintenance of judicial court records
- Assist in preparing annual budgets
- May assist in the management of personnel, operations, and the court facilities.

Employment requirements

- Completion of secondary school is required.
- On-the-job training is provided for court officers, court clerks, and court liaison officers.
- Special Constable Certification may be required for court officers and court liaison officers.
- Court clerks and court officers may require a 1-2 year post-secondary diploma in office administration or equivalent.
- Court administrators usually require a 1-2 year post-secondary diploma, or may require a university degree in law, business administration, judicial administration, or related field.
- Some experience as a court clerks may be required for court administrators.
- Experience in clerical services, administration and management, and personnel information systems may be required for court administrators.

Additional information

- Progression to supervisory or senior court service positions is possible with experience.
- Duties of court administrators may include those of court clerks or court officers depending on the location and size of the courthouse.

1411 Survey, statistical and data entry occupations

This minor group comprises survey, statistical and data entry occupations, including survey interviewers and statistical clerks, data entry clerks, and desktop publishing operators and related occupations. They are employed by market research and polling firms, government departments and agencies, utility companies, contact centres and other establishments throughout the public and private sectors.

14110 Survey interviewers and statistical clerks

Survey interviewers contact individuals to gather information for market research, public opinion polls or election and census enumeration. Statistical clerks code and compile interview and other data into reports, lists, directories and other documents. They are employed by market research and polling firms, government departments and agencies, utility companies, contact centres and other establishments. This unit group also includes clerks who observe and record information on traffic flow.

Illustrative example(s)

- census enumerator
- coding clerk - statistics
- election enumerator
- interview clerk
- poll clerk
- public opinion interviewer
- statistical clerk
- survey interviewer
- telephone survey clerk

Inclusion(s)

- meter reader

Exclusion(s)

- Correspondence, publication and regulatory clerks (14301)
- Other customer and information services representatives (64409)
- Statistical officers and related research support occupations (12113)
- Telemarketer (See 65109-Other sales related occupations)

Main duties

This group performs some or all of the following duties:

Survey interviewers

- Contact individuals by telephone or in person and explain the purpose of the interview
- Ask questions following the outlines of questionnaires and surveys
- Record responses on paper or enter responses directly into a computer database through computer-assisted interviewing systems.

Statistical clerks

- Check information gathered for completeness and accuracy
- Code information according to established coding manuals and enter data into statistical-based computer programs
- Conduct routine statistical analysis of data
- Compile interview and other data into reports and lists.

Employment requirements

- Completion of secondary school may be required.
- Experience in the operation of a computer may be required.
- On-the-job training is usually provided.
- May require driver's licence.

14111 Data entry clerks

Data entry clerks input coded, statistical, financial and other information into computerized databases, spreadsheets or other templates using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They are employed in the private and public sectors.

Illustrative example(s)

- data control clerk
- data entry operator
- data input clerk
- data processor
- payment entry clerk

Exclusion(s)

- General office support workers (14100)
- Supervisors, general office and administrative support workers (12010)

Main duties

This group performs some or all of the following duties:

- Receive and register invoices, forms, records and other documents for data capture
- Input data into computerized databases, spreadsheets or other templates using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools
- Import and/or export data between different kinds of software
- Verify accuracy and completeness of data
- Identify, label and organize electronic storage media
- Maintain libraries of electronic storage media.

Employment requirements

- Completion of secondary school may be required.
- College or other courses in data entry may be required.

Additional information

- Progression to senior positions is possible with experience.

14112 Desktop publishing operators and related occupations

Desktop publishing operators and workers in related occupations use computers to enter copy into a typesetting system or operate typesetting output equipment to produce text that is ready to print. They are employed by firms that specialize in typesetting, commercial printing companies, publishing and printing companies and various establishments in the public and private sectors that have in-house printing departments.

Illustrative example(s)

- braille keyboard operator - typesetting
- compositor - typesetting
- computer typesetter
- copy marker - typesetting
- desktop compositor
- desktop publishing (DTP) operator
- input operator - typesetting
- markup person - typesetting
- output operator - typesetting
- photocomposition typesetter
- photocompositor
- phototypesetting machine operator
- typographer

Inclusion(s)

- terminal operator

Exclusion(s)

- Desktop publishing operators supervisor (See 12010-Supervisors, general office and administrative support workers)
- File preparation operator (See 94151-Camera, platemaking and other prepress occupations)
- Graphic arts copy stylist (See 52111-Graphic arts technicians)
- Graphic designers and illustrators (52120)
- Paste-up artist (See 52111-Graphic arts technicians)
- Pre-flight operator - printing (See 94151-Camera, platemaking and other prepress occupations)
- Proofreader (See 14301-Correspondence, publication and regulatory clerks)

Main duties

This group performs some or all of the following duties:

Desktop publishing operators

- Operate desktop publishing software and equipment to design, lay out and produce camera-ready copy and may perform pre-flight operator duties
- Mark copy with computer codes and typographic instructions before it is typeset.

Typesetting input and output operators

- Input copy, codes or commands and subsequent corrections into typesetting device or system
- Operate media conversion equipment to process and format copy transmitted through telecommunications
- Operate and tend typesetting output devices, load and process photosensitive material and perform routine maintenance.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in graphic arts, or other training in typography, computer typesetting or desktop publishing, is usually required.

Additional information

- Progression to supervisory positions is possible through experience.

142 Financial, insurance and related administrative support workers

This sub-major group comprises financial, insurance and related administrative support workers, including accounting and related clerks; banking, insurance and other financial clerks; and collection clerks.

1420 Financial, insurance and related administrative support workers

This minor group comprises financial, insurance and related administrative support workers, including accounting and related clerks; banking, insurance and other financial clerks; and collection clerks. They are employed by banks; credit companies; public and private insurance establishments; investment firms and other financial establishments; collection agencies; utility companies; department stores; loan companies; credit unions; and financial and licensing departments within governments; and throughout the public and private sectors.

14200 Accounting and related clerks

Accounting and related clerks calculate, prepare and process bills, invoices, accounts payable and receivable, budgets and other financial records according to established procedures. They are employed throughout the private and public sectors.

Illustrative example(s)

- accounting clerk
- accounts payable clerk
- accounts receivable clerk
- audit clerk
- billing clerk
- budget clerk
- costing clerk
- deposit clerk
- finance clerk
- freight-rate clerk
- income tax return preparer
- invoice clerk
- ledger clerk
- tax clerk

Inclusion(s)

- wharf clerk

Exclusion(s)

- Accounting technicians and bookkeepers (12200)
- Banking, insurance and other financial clerks (14201)
- Collection clerks (14202)
- Financial auditors and accountants (11100)
- Payroll administrators (13102)
- Supervisors, finance and insurance office workers (12011)

Main duties

This group performs some or all of the following duties:

- Calculate, prepare and issue documents related to accounts such as bills, invoices, inventory reports, account statements and other financial statements using computerized and manual systems
- Code, total, batch, enter, verify and reconcile transactions such as accounts payable and receivable, payroll, purchase orders, cheques, invoices, cheque requisitions, and bank statements in a ledger or computer system
- Compile budget data and documents based on estimated revenues and expenses and previous budgets
- Prepare period or cost statements or reports
- Calculate costs of materials, overhead and other expenses based on estimates, quotations, and price lists

- Respond to customer inquiries, maintain good customer relations and solve problems
- Perform related clerical duties, such as word processing, maintaining filing and record systems, faxing and photocopying.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other courses certified by the Certified General Accountants Association of Canada, Canadian Securities Institute or Canadian Bookkeepers Association may be required.
- Some accounting clerks must be bondable.

Additional information

- Progression to supervisory or skilled financial occupations, such as accounts payable supervisor, bookkeeper or office manager is possible with additional training and experience.

14201 Banking, insurance and other financial clerks

Banking, insurance and other financial clerks compile, process and maintain banking, insurance and other financial information. They are employed by banks, credit companies, private and public insurance establishments, investment firms and other financial establishments throughout the private and public sectors.

Illustrative example(s)

- actuarial clerk
- bank clerk
- credit clerk
- dental claims clerk
- dividend calculation clerk
- insurance clerk - financial sector
- insurance rater
- ledger control clerk
- loan clerk - financial sector
- mortgage clerk
- premium rater - insurance
- real estate clerk
- securities clerk - financial sector

Exclusion(s)

- Accounting technicians and bookkeepers (12200)
- Customer services representatives - financial institutions (64400)
- Supervisors, finance and insurance office workers (12011)

Main duties

This group performs some or all of the following duties:

Bank Clerks

- Compile records of deposits, withdrawals, loan and mortgage payments, cheques and purchase, sale and exchange of securities

- Process loan and mortgage applications, loan and mortgage payments, retirement savings plan applications, term deposits, drafts and money orders
- Verify and balance automatic teller machine transactions and ledger entries, calculate service charges and interest payments and notify customers regarding account discrepancies and captured bank cards
- Answer enquiries and provide information on banking products, policies and services
- May sell drafts, money orders, travellers' cheques and foreign currency, rent safety deposit boxes and open and close savings, chequing and other accounts.

Insurance clerks

- Process enrolments, cancellations, claims transactions, policy changes and premium payments
- Review insurance applications and verify insurance coverage, premiums paid and other insurance information
- Calculate insurance premiums, pension benefits and annuity payments
- Compile and maintain claims data, rates and insurance data and records
- Answer enquiries and provide information on insurance products, policies and services.

Other financial clerks

- Compile and maintain rental, sale and other real estate listings
- Compile and maintain stock, bond and other securities listings
- Sort, verify and process real estate, securities and other financial transactions
- Answer enquiries and reply to correspondence.

Employment requirements

- Completion of secondary school is required.
- A business college diploma may be required.
- On-the-job training and short-term training courses or programs specific to the financial establishment are usually required.

Additional information

- Progression to supervisory positions is possible with experience.

14202 Collection clerks

Collection clerks collect payments on overdue accounts and bad cheques and locate debtors to make collection arrangements. They are employed by collection agencies, utility companies, department stores, loan companies, banks and credit unions, and by financial and licensing departments within governments.

Illustrative example(s)

- bill collector
- collection clerk
- collection officer (except taxation)
- collections investigation officer
- collector
- credit and collection clerk
- locator - collection
- skip tracer - collection

Exclusion(s)

- Accounts receivable clerk (See 14200-Accounting and related clerks)
- Collection supervisor (See 12011-Supervisors, finance and insurance office workers)
- Tax collection officer (See 12104-Employment insurance and revenue officers)

Main duties

This group performs some or all of the following duties:

- Notify debtors of overdue payments and accounts by telephone, mail, and registered mail, and continue the notification process if reply is not received
- Resolve collection issues by making payment arrangements by telephone or visit to debtor
- Recommend further action or discontinuation of service in cases where payment is not forthcoming
- Trace and locate debtors, and may contact debtors' friends, neighbours, relatives and employers to obtain information
- Answer correspondence, prepare reports and maintain records and files related to collection work
- May work with on-line accounts and systems.

Employment requirements

- Completion of secondary school is required.
- A business college diploma may be required.
- A period of on-the-job training is often provided for collection clerks and collection officers.
- A collections licence issued by the province or territory of employment is usually required.

Additional information

- Progression to senior or supervisory positions is possible with experience.

143 Library, correspondence and other clerks

This sub-major group comprises library, correspondence and other clerks, including library assistants and clerks, and the correspondence, publication and regulatory clerks.

1430 Library, correspondence and other clerks

This minor group comprises library, correspondence and other clerks, including library assistants and clerks, and the correspondence, publication and regulatory clerks. They are employed by libraries and other establishments with library services; newspapers, periodicals and publishing firms; and throughout the public and private sectors.

14300 Library assistants and clerks

Library assistants and clerks issue and receive library materials, sort and shelve books and provide general library information to users. They also perform clerical functions. Library clerks are employed by libraries or other establishments with library services.

Illustrative example(s)

- circulation clerk - library
- interlibrary loan clerk
- library assistant

- library page
- periodicals clerk
- reference clerk
- shelving clerk - library

Exclusion(s)

- Librarians (51100)
- Library technician (See 52100-Library and public archive technicians)
- Supervisors, library, correspondence and related information workers (12012)

Main duties

This group performs some or all of the following duties:

- Issue and receive library books and other materials
- Sort and reshelve books and other library materials
- Perform clerical activities such as manual and electronic filing and record payments received
- Maintain journal subscriptions
- Assist library users in accessing library materials and online resources, and in making interlibrary loans.

Employment requirements

- Completion of secondary school is usually required.

Additional information

- Progression to more senior positions is possible with experience and post-secondary education related to library science.

14301 Correspondence, publication and regulatory clerks

Correspondence, publication and regulatory clerks write correspondence, proofread material for accuracy, compile material for publication, verify, record and process forms and documents, such as applications, licences, permits, contracts, registrations and requisitions, and perform other related clerical duties in accordance with established procedures, guidelines and schedules. They are employed by newspapers, periodicals, publishing firms and by establishments throughout the private and public sectors.

Illustrative example(s)

- advertising clerk
- application clerk
- authorization clerk
- by-law clerk
- classified advertising clerk
- contract clerk
- correspondence clerk
- customs clerk
- directory compiler
- documentation clerk

- editorial assistant
- licence clerk
- passport clerk
- proofreader
- publication clerk
- registration clerk
- registry clerk
- translation clerk

Inclusion(s)

- archives clerk
- press clipper
- press reader
- reader
- tests clerk

Exclusion(s)

- Professional occupations in advertising, marketing and public relations (11202)
- Supervisors, library, correspondence and related information workers (12012)

Main duties

This group performs some or all of the following duties:

Classified advertising clerks

- Receive customers' orders for classified advertising, write and edit copy, calculate advertising costs and bill customers.

Correspondence clerks

- Write business and government correspondence such as replies to requests for information and assistance, damage claims, credit and billing enquiries and service complaints.

Proofreaders and editorial assistants

- Assist in the preparation of periodicals, advertisements, catalogues, directories and other material for publication
- Verify facts and conduct research
- Read material prior to publication to detect and mark for correction any grammatical, typographical or compositional errors.

Readers and press clippers

- Read newspapers, magazines, press releases and other publications to locate and file articles of interest to staff and clients.

Regulatory clerks

- Compile, verify, record and process applications, licences, permits, contracts, registrations, requisitions and other forms and documents in accordance with established procedures using processing systems
- Authorize and issue licences, permits, registration papers, reimbursements and other material after requested documents have been processed and approved.

Employment requirements

- Completion of secondary school is required.
- Additional courses or a diploma in writing, journalism or a related field may be required.
- Previous clerical or administrative experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.

144 Supply chain logistics, tracking and scheduling coordination occupations

This sub-major group comprises supply chain logistics, tracking and scheduling coordination occupations, including shippers and receivers, storekeepers and partspersons, production logistics workers, purchasing and inventory control workers, dispatchers and transportation route and crew schedulers.

1440 Supply chain logistics, tracking and scheduling coordination occupations

This minor group comprises supply chain logistics, tracking and scheduling coordination occupations, including shippers and receivers, storekeepers and partspersons, production logistics workers, purchasing and inventory control workers, dispatchers and transportation route and crew schedulers. They are employed by utility, manufacturing, construction, forestry and mining companies; retail, wholesale, commercial, industrial, transportation and other establishments; warehouses, repair shops and hospitals; printing and publishing companies; police, fire and other emergency services; taxi, delivery and courier services; and throughout the public and private sectors.

14400 Shippers and receivers

Shippers and receivers ship, receive and record the movement of parts, supplies, materials, equipment and stock to and from an establishment. They are employed in the public sector and by retail and wholesale establishments, manufacturing companies, and other commercial and industrial establishments.

Illustrative example(s)

- freight receiver
- freight shipper
- import freight clerk
- receiver
- shipper
- shipper-receiver
- shipping agent
- shipping and receiving clerk
- supply chain assistant

Exclusion(s)

- Export clerk (See 14301-Correspondence, publication and regulatory clerks)
- Import clerk (See 14301-Correspondence, publication and regulatory clerks)
- Material handlers (75101)
- Purchasing and inventory control workers (14403)
- Storekeepers and partspersons (14401)
- Supervisors, supply chain, tracking and scheduling coordination occupations (12013)

Main duties

This group performs some or all of the following duties:

- Determine method of shipment and arrange shipping; prepare bills of lading, customs forms, invoices and other shipping documents manually or by computer
- Assemble containers and crates, record contents manually or by computer, pack goods to be shipped and affix identifying information and shipping instructions
- Oversee loading and unloading of goods from trucks or other conveyances
- Inspect and verify incoming goods against invoices or other documents, record shortages and reject damaged goods
- Unpack, code and route goods to appropriate storage areas
- Maintain internal, manual or computerized record-keeping systems
- May operate forklift, hand truck or other equipment to load, unload, transport and store goods.

Employment requirements

- Completion of secondary school is usually required.
- Experience in a related clerical occupation or as a warehouse worker may be required.
- A forklift certificate may be required.
- A driver's licence may be required.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

14401 Storekeepers and partspersons

Storekeepers and partspersons sort, store and issue parts and supplies for use by the establishment in which they work and for sale to the public. They are employed by manufacturing companies, warehouses, retail and wholesale establishments, mining, forestry and construction companies, repair shops, hospitals and other establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- ammunition storekeeper
- automotive partsperson - retail
- material keeper
- medical supply clerk
- motor vehicle parts clerk
- parts clerk

- parts supplier
- partsperson
- ship storeman/woman
- storekeeper
- tool room attendant

Inclusion(s)

- parts technician

Exclusion(s)

- Parts clerks supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)
- Purchasing and inventory control workers (14403)
- Shippers and receivers (14400)

Main duties

This group performs some or all of the following duties:

- Receive and sort incoming parts and supplies
- Store items in an orderly and accessible manner in a warehouse, tool room, supply room or other area
- Process incoming requisitions and issue or distribute parts and supplies for internal usage
- Maintain records of orders and the amount, kind and location of parts and supplies on hand using manual or computerized inventory system
- Prepare requisition orders to replenish parts and supplies
- Sell spare and replacement parts for motor vehicles, machinery and equipment in a retail setting
- Advise retail customers or internal users on appropriateness of parts, supplies or materials requested.

Partspersons may specialize in a particular line of parts such as automotive parts, recreational vehicle parts, marine parts, heavy equipment parts, agricultural machinery parts, heating, ventilating and air conditioning parts or refrigeration parts.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program or
Completion of specialized training in high school and a one-year college program for partspersons may be required.
- Trade certification for partspersons is available, but voluntary, in all provinces and territories.
- Experience in a related clerical occupation, or as a warehouse worker, may be required for partspersons.
- Red Seal endorsement is also available to qualified partspersons upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with additional training or experience.

14402 Production logistics workers

Production logistics workers expedite the flow of work and materials within an establishment and prepare merchandise ready for shipment. They are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments.

Illustrative example(s)

- expediter
- production clerk
- scheduling clerk
- traffic control clerk

Inclusion(s)

- material estimator
- traffic clerk - broadcasting

Exclusion(s)

- Production and transportation logistics coordinators (13201)
- Purchasing and inventory control workers (14403)
- Shippers and receivers (14400)
- Storekeepers and partspersons (14401)
- Supervisors, supply chain, tracking and scheduling coordination occupations (12013)

Main duties

This group performs some or all of the following duties:

- Find, sort or move goods between different sections, unit and departments and receive, unpack and track merchandise
- Compile detailed worksheets and specifications from customer's order
- Compare items packed with customer orders and other identifying data for quality control
- Compile reports on the progress of work and on any production problems that arise
- Track material inventory, prepare new material orders, monitor order schedules for inventory control and maintain inventory records
- Maintain contact with vendors to ensure that supplies and equipment are shipped on time
- Prepare material estimates to ensure enough materials are available to complete production projects.

Employment requirements

- Completion of secondary school is usually required.

Additional information

- Progression to coordination positions is possible with experience.

14403 Purchasing and inventory control workers

Purchasing and inventory control workers process purchasing transactions and maintain inventories of materials, equipment and stock. They are employed by retail and wholesale establishments, manufacturing companies, government agencies and other establishments.

Illustrative example(s)

- inventory analyst
- inventory clerk
- inventory control clerk
- inventory planner
- procurement clerk
- purchasing clerk
- purchasing clerk assistant

Inclusion(s)

- inventory auditor

Exclusion(s)

- Inventory clerks supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)
- Procurement and purchasing agents and officers (12102)
- Retail and wholesale buyers (62101)
- Storekeepers and partspersons (14401)

Main duties

This group performs some or all of the following duties:

Purchasing control workers

- Review requisition orders for accuracy and verify that materials, equipment and stock are not available from current inventories
- Source and obtain price quotations from catalogues and suppliers and prepare purchase orders
- Calculate cost of orders and charge or forward invoices to appropriate accounts
- Process purchases within purchasing authority
- Contact suppliers to schedule deliveries and to resolve shortages, missed deliveries and other problems
- Prepare and maintain purchasing files, reports and price lists.

Inventory control workers

- Monitor inventory levels as materials, equipment and stock are issued, transferred within an establishment or sold to the public using manual or computerized inventory systems
- Compile inventory reports, recording the quantity, type and value of materials, equipment and stock on hand, using manual or computerized inventory systems
- Prepare requisition orders to replenish materials, equipment and stock
- Maintain stock rotation and dispose of and account for outdated stock
- Enter data for production scheduling, stock replenishment/relocation and inventory adjustments
- Reconcile physical inventories with computer counts.

Employment requirements

- Completion of secondary school is usually required.
- Courses in purchasing management may be required for purchasing control workers.
- Courses in production and inventory management and ability to operate a computerized inventory system may be required for inventory control workers.

Additional information

- The duties of purchasing and inventory control workers may overlap in some establishments.
- Progression to supervisory positions or more senior occupations such as purchasing agent or retail buyer is possible with additional training or experience.

14404 Dispatchers

Dispatchers operate radios and other telecommunication equipment to dispatch emergency vehicles and to coordinate the activities of drivers and other personnel. They are employed by police, fire and health departments, other emergency service agencies, taxi, delivery and courier services, trucking and utilities companies, and other commercial and industrial establishments.

Illustrative example(s)

- 911 dispatcher
- alarm system dispatcher
- ambulance dispatcher
- emergency vehicle dispatcher
- mobile equipment dispatcher
- radio operator
- taxi dispatcher
- tow truck dispatcher
- truck dispatcher
- utilities maintenance crew dispatcher

Exclusion(s)

- Air traffic controllers and related occupations (72601)
- Bus dispatcher (See 72024-Supervisors, motor transport and other ground transit operators)
- Dispatchers supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)
- Railway traffic controllers and marine traffic regulators (72604)

Main duties

This group performs some or all of the following duties:

- Receive requests for emergency assistance or service and contact ambulances, police and fire departments, tow-trucks, and utility crews
- Process and transmit information and instructions to coordinate the activities of vehicle operators, crews and equipment using a variety of computer-aided communications and dispatching equipment
- Dispatch personnel according to written schedules and work orders, or as required by emergency situations

- Advise vehicle operators of route and traffic problems such as construction, accidents, congestion, weather conditions, weight and size restrictions and other information
- Operate radio equipment to communicate with ships, aircraft, mining crews, offshore oil rigs, logging camps and other remote operations
- Monitor personnel workloads and locations
- Maintain vehicle operator work records using computerized or manual methods and ensure time sheets and payroll summaries are completed accurately
- Maintain computer and manual records of mileage, fuel use, repairs and other expenses, and generate reports.

Employment requirements

- Completion of secondary school is required.
- Police and emergency dispatchers are required to complete formal on-the-job training. Other dispatchers usually undergo some informal on-the-job training.
- Police and emergency dispatchers and other radio operators usually require provincial radio operator's certificates.

14405 Transportation route and crew schedulers

Transportation route and crew schedulers prepare operational and crew schedules for transportation equipment and operating personnel. They are employed by municipal transit commissions, truck, delivery and courier companies, railways, airlines and by other transportation establishments in both the private and public sectors.

Illustrative example(s)

- bus scheduler
- crew scheduler - transportation
- flight crew scheduler
- schedule analyst
- train scheduler
- transit scheduler
- transportation schedules writer
- truck scheduler

Exclusion(s)

- Crew schedulers supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)
- Flight schedulers manager (See 70020-Managers in transportation)
- Production scheduler (See 13201-Production and transportation logistics coordinators)
- Scheduling technician - manufacturing (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Transportation route schedulers supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)

Main duties

This group performs some or all of the following duties:

- Review schedule requisitions, passenger counts and cargo, running times, distances, personnel availability and other pertinent information to establish schedule parameters
- Design new or modify existing schedules using computer software or other methods
- Incorporate into route plan factors such as peak travel periods, holidays, special events and construction with emphasis on time and cost efficiency
- Assign personnel to equipment and routes and schedule work shifts
- Compile equipment and personnel records, including hours in service, distances, maintenance, repairs required and other data, to produce operating reports
- May prepare user guides and other public service information.

Employment requirements

- Completion of secondary school is required.
- Several years of experience in an appropriate transportation sector are usually required.
- On-the-job training may be provided.

Additional information

- Mobility between occupations in this group is limited due to the requirement of specific transportation sector experience.
- Progression to supervisory positions is possible with experience.

2 Natural and applied sciences and related occupations

This broad category comprises occupations in natural sciences (including basic and applied sciences and experimental development), engineering, architecture and information technology. These occupations cover specialized middle management occupations in engineering, architecture, science and information systems; professional occupations in natural sciences (basic and applied sciences and experimental development); and technical occupations related to natural sciences (including basic and applied sciences and experimental development).

20 Specialized middle management occupations in engineering, architecture, science and information systems

This major group comprises specialized middle management occupations in engineering, architecture, science and information systems. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

200 Specialized middle management occupations in engineering, architecture, science and information systems

This sub-major group comprises specialized middle management occupations in engineering, architecture, science and information systems.

2001 Managers in engineering, architecture, science and information systems

This minor group comprises specialized middle managers in engineering, architecture, science and information systems, including engineering managers, architecture and science managers, and computer and information systems managers. They are employed throughout the public and private sectors and by government establishments, consulting engineering and scientific research companies and architectural firms.

20010 Engineering managers

Engineering managers plan, organize, direct, control and evaluate the activities of an engineering department, service or firm. They are employed by a wide range of private sector and government establishments and by consulting engineering and scientific research companies.

Illustrative example(s)

- director of engineering research and development
- electrical engineering manager
- engineering department manager
- engineering manager
- production engineering manager
- telecommunications engineering service manager

Exclusion(s)

- Architecture and science managers (20011)
- Civil and mechanical engineers (2130)
- Computer and information systems managers (20012)
- Computer, software and Web designers and developers (2123)
- Construction managers (70010)
- Electrical, electronics and computer engineers (2131)

- Managers in transportation (70020)
- Manufacturing and processing engineers (2132)
- Manufacturing managers (90010)
- Natural resources engineers (2133)
- Other engineers (2139)
- Utilities managers (90011)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of an engineering department, service or firm
- Develop and implement policies, standards and procedures for the engineering and technical work performed in the department, service, laboratory or firm
- Consult and negotiate with clients to prepare specifications, explain proposals and present engineering reports and findings
- Assign, coordinate and review the technical work of the department or project teams
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of technical projects or in the engineering work of the department.

Employment requirements

- A bachelor's degree in engineering is usually required.
- Extensive experience in an engineering discipline, including supervisory experience, is required.
- Registration as a Professional Engineer (P. Eng.) by a provincial or territorial association of professional engineers is usually required.

Additional information

- Mobility to other technical managerial positions, or to research or senior management positions is possible with experience.

20011 Architecture and science managers

Architecture and science managers plan, organize, direct, control and evaluate the activities of an architecture, landscape architecture, scientific or statistical department, service or firm. They are employed by a wide range of private sector and government establishments as well as by architectural firms and scientific research companies.

Illustrative example(s)

- agricultural chemistry branch director
- architectural manager
- chief actuary
- landscape architecture manager
- life sciences program manager
- petroleum geology department manager
- research director - forestry
- research director - manufacturing

- research director - mining
- scientific research department manager
- statistical service manager

Exclusion(s)

- Architects, urban planners and land surveyors (2120)
- Computer and information systems managers (20012)
- Engineering managers (20010)
- Life science professionals (2111)
- Managers in natural resources production and fishing (80010)
- Mathematicians, statisticians, actuaries and data scientists (2121)
- Physical science professionals (2110)
- Public and environmental health and safety professionals (2112)

Main duties

This group performs some or all of the following duties:

Architecture and urban planning managers

- Plan, organize, direct, control and evaluate the activities and operations of an urban planning service or an architectural firm
- Develop and implement policies, standards and procedures for the architectural and urban planning work performed in the department, service, or firm
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- Assign, coordinate and review the technical work of the department or project teams
- May consult and negotiate with clients to prepare specifications, explain proposals or present architectural research reports and findings
- May participate directly in the design, development and inspection of technical projects of the department.

Science managers

- Plan, organize, direct, control and evaluate the research, development or production activities of a scientific research and development laboratory or firm
- Develop and implement policies, standards and procedures for the scientific and technical work performed in the laboratory, department, service, or firm
- Assign, coordinate and review the applied scientific work of the department or project teams
- Confer with scientists, engineers, regulators, or others to plan or review projects
- Develop client relationships and communicate with clients to explain proposals, present research findings, establish specifications, or discuss project status
- Review project activities, prepare and review research, testing, or operational reports
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of the theoretical or applied scientific work of the department.

Employment requirements

- Architecture managers require a degree in architecture, registration as a professional architect and several years of experience as an architect.
- Landscape architecture managers require a degree in landscape architecture, licensing as a professional landscape architect and several years of experience as a landscape architect.
- Science and other managers in this unit group require a master's or doctoral degree in a scientific discipline and several years of experience in a related scientific discipline.

Additional information

- Progression to senior management positions in the respective fields is possible with experience.

20012 Computer and information systems managers

Computer and information systems managers plan, organize, direct, control and evaluate the activities of organizations that analyze, design, develop, implement, operate and administer computer and telecommunications software, networks and information systems. They are employed throughout the public and private sectors.

Illustrative example(s)

- business systems manager
- cloud solutions architect manager
- computer systems manager
- data centre manager
- data processing and systems analysis manager
- data processing director
- director of software engineering
- electronic data processing (EDP) manager
- enterprise resource planning (ERP) manager
- information systems manager
- management information system (MIS) manager
- software development manager
- software engineering manager
- systems development manager
- technical delivery manager - information technology (IT)
- technical program manager - information technology (IT)

Exclusion(s)

- Computer and information systems professionals (2122)
- Computer engineers (except software engineers and designers) (21311)
- Computer systems developers and programmers (21230)
- Computing services company president (See 00012-Senior managers - financial, communications and other business services)
- Local area network (LAN) manager (See 22220-Computer network and web technicians)
- Software engineers and designers (21231)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of information systems and electronic data processing (EDP) departments and companies
- Develop and implement policies and procedures for electronic data processing and computer systems development and operations
- Meet with clients to discuss system requirements, specifications, costs and timelines
- Assemble and manage teams of information systems personnel to design, develop, implement, operate and administer computer and telecommunications software, networks and information systems
- Control the budget and expenditures of the department, company or project
- Recruit and supervise computer analysts, engineers, programmers, technicians and other personnel and oversee their professional development and training.

Employment requirements

- A bachelor's or master's degree in computer science, business administration, commerce or engineering is usually required.
- Several years of experience in systems analysis, data administration, software engineering, network design or computer programming, including supervisory experience, are required.

21 Professional occupations in natural and applied sciences

This major group comprises professional occupations in natural sciences; professional occupations in applied sciences and professional occupations in engineering. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 1. Occupations classified in TEER 1, as those in this group with a 1 as the second digit of their code, typically require a university degree (bachelor's, master's or doctorate) or the accumulation of several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 2, when applicable (which includes occupations with a 2 as a second digit in their code).

211 Professional occupations in natural sciences

This sub-major group comprises professional occupations in natural sciences, including physical science professionals, life science professionals, and public and environmental health and safety professionals.

2110 Physical science professionals

This minor group comprises physical science professionals, including physicists and astronomers, chemists, geoscientists and oceanographers, meteorologists and climatologists, and other professional occupations in physical sciences. They are employed by manufacturing, processing, telecommunications, natural resource, and consulting companies; power utilities; research, development and quality control laboratories; the media; and a wide variety of health, educational, governmental and industrial establishments; or they may be self-employed.

21100 Physicists and astronomers

Physicists conduct theoretical and applied research to extend knowledge of natural phenomena and to develop new processes and devices in fields such as electronics, communications, power generation and distribution, aerodynamics, optics and lasers, remote sensing, biotechnology, medicine and health. They are employed by electronic, electrical and aerospace manufacturing companies, telecommunications companies, power utilities, university and government research laboratories, hospitals and by a wide range of other processing, manufacturing, and research and consulting firms. Astronomers conduct observational and theoretical research to extend knowledge of the universe. They are employed by government and universities.

Illustrative example(s)

- acoustics physicist
- aerodynamicist
- aerospace research scientist
- astronomer
- astrophysicist
- atmospheric physicist
- biophysicist
- cosmologist
- electronics research scientist
- experimental physicist
- health physicist
- medical physicist
- metrologist
- nuclear physicist
- optics physicist
- physics research scientist
- plasma physicist
- radio astronomer
- remote sensing research scientist
- solid-state physicist

Exclusion(s)

- Architecture and science managers (20011)
- Computer engineers (except software engineers and designers) (21311)
- Geophysicist (See 21102-Geoscientists and oceanographers)
- Physical oceanographer (See 21102-Geoscientists and oceanographers)

Main duties

This group performs some or all of the following duties:

Physicists

- Design and conduct research in experimental and theoretical physics
- Carry out analysis of research data and prepare research reports
- Participate as a member of a research or development team in the design and development of experimental, industrial or medical equipment, instrumentation and procedures.

Physicists may specialize in fields such as aeronomy and space, acoustics, atomic and molecular physics, biophysics, condensed matter or solid state physics, electromagnetics, fluids and aerodynamics, health physics, medical physics, metrology, particle physics, optics and laser physics, nuclear physics and plasma physics.

Astronomers

- Design and conduct observational surveys, conduct detailed analyses and develop numerical models to extend knowledge of celestial bodies and cosmic radiation

- Develop or participate in the development of instrumentation and software for astronomical observation and analysis.

Astronomers may specialize in fields such as astrophysics, observational or optical astronomy and radio astronomy.

Employment requirements

- Physicists usually require a master's or doctoral degree in a field of physics, engineering physics, or in a related discipline.
- Astronomers usually require a master's or doctoral degree in astronomy or in a related discipline.
- Additional information
- Mobility between specializations within physics and within astronomy is possible with experience.
- Physicists may work closely with and perform some of the duties of engineers.
- Mobility is possible to the fields of meteorology, geophysics and other fields of science.
- Progression to management positions is possible with experience.

21101 Chemists

Chemists conduct research and analysis in support of industrial operations, product and process development, quality control, environmental control, medical diagnosis and treatment, biotechnology, nanotechnology and other applications. They also conduct theoretical, experimental and applied research into basic chemical and biochemical processes to create or synthesize new products and processes. They are employed in research, development and quality control laboratories; chemical, petrochemical and pharmaceutical industries; mineral, metal and pulp and paper industries; and a wide variety of manufacturing, utility, health, educational and government establishments.

Illustrative example(s)

- agricultural chemist
- analytical chemist
- bioanalytical chemist
- biochemist
- chemist
- clinical chemist
- coatings chemist
- electrochemist
- environmental chemist
- food chemist
- inorganic chemist
- medicinal chemist
- nuclear magnetic resonance (NMR) spectroscopist
- oceanographic chemist
- organic chemist
- organic mass spectrometrist
- organometallic chemist
- pharmacological chemist
- physical chemist

- polymer chemist
- quality control chemist
- research chemist
- soil chemist
- textile chemist
- theoretical chemist

Exclusion(s)

- Architecture and science managers (20011)
- Chemical engineers (21320)
- Geochemist (See 21102-Geoscientists and oceanographers)
- Materials scientist (See 21109-Other professional occupations in physical sciences)
- Metallurgist (See 21109-Other professional occupations in physical sciences)
- Molecular biologist (See 21110-Biologists and related scientists)

Main duties

This group performs some or all of the following duties:

- Analyze, synthesize, purify, modify and characterize chemical or biochemical compounds
- Develop and conduct programs of analysis to ensure quality control of raw materials, chemical intermediates or final products
- Conduct programs of sample and data collection and analysis to identify and quantify environmental toxicants
- Conduct research to develop new chemical formulations and processes and devise new technical applications of industrial chemicals and compounds
- Conduct research to discover, develop, refine and evaluate new products such as those used in nanomedicine, nanoelectronics and other applications of chemistry
- Conduct fundamental and applied research into the synthesis and properties of chemical compounds and the mechanisms of chemical reactions
- Investigate chemical aspects of the mechanisms of drug action, the diagnosis and treatment of disease, organ function and the assessment of health
- Participate in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals
- Act as technical consultant in a particular field of expertise
- May participate in the commercialization of new products
- May supervise other chemists and chemical technicians and technologists.

Employment requirements

- A bachelor's degree in chemistry, biochemistry or a related discipline is required.
- A master's or doctoral degree is usually required for employment as a research chemist.
- Licensing by a provincial association of chemists is required in Quebec and available but voluntary, in Nova Scotia, Ontario, Saskatchewan, Alberta and British Columbia.

Additional information

- Mobility between occupations in this group is possible with experience.
- Mobility is possible with experience, to occupations concerned with plant management, technical sales and the development and management of regulatory programs and teaching professions.

21102 Geoscientists and oceanographers

Geoscientists include geologists, geochemists and geophysicists who conduct programs of exploration and research to extend knowledge of the structure, composition and processes of the earth, to locate, identify and extract hydrocarbon, mineral and groundwater resources and to assess and mitigate the effects of development and waste disposal projects on the environment. Oceanographers conduct programs of exploration and research on ocean processes and phenomena, biological, chemical and physical characteristics of oceans, interactions with atmospheric and geological environments and impacts of human activity on oceans and marine ecosystems. Geoscientists are employed by petroleum and mining companies, consulting geology, geophysics and engineering firms and by governments and educational institutions, or they may be self-employed. Oceanographers are employed by governments, educational institutions and private companies engaged in exploration of seafloor deposits and seafarming areas, or they may be self-employed.

Illustrative example(s)

- development geologist
- environmental geologist
- exploration geologist
- geochemist
- geologist
- geophysicist
- glaciologist
- groundwater geologist
- hydrogeologist
- hydrologist
- mine geologist
- mineralogist
- oceanographer
- paleontologist
- petroleum geologist
- petrologist
- sedimentologist
- seismologist
- stratigrapher

Exclusion(s)

- Architecture and science managers (20011)
- Biologists and related scientists (21110)
- Chemists (21101)
- Geological engineers (21331)

- Managers in natural resources production and fishing (80010)
- Physicists and astronomers (21100)

Main duties

This group performs some or all of the following duties:

Geoscientists

- Conduct theoretical and applied research to extend knowledge of surface and subsurface features of the earth, its history and the operation of physical, chemical and biological systems that control its evolution
- Plan, direct and participate in geological, geochemical and geophysical field studies, drilling and geological testing programs
- Plan and conduct seismic, geodetic, electromagnetic, magnetic, gravimetric, radiometric, radar and other remote sensing programs
- Plan, direct and participate in analyses of geological, geochemical and geophysical survey data, well logs and other test results, maps, notes and cross sections
- Develop models and applied software for the analysis and interpretation of data
- Plan and conduct analytical studies of core samples, drill cuttings and rock samples to identify chemical, mineral, hydrocarbon and biological composition and to assess depositional environments and geological age
- Assess the size, orientation and composition of mineral ore bodies and hydrocarbon deposits
- Identify deposits of construction materials and determine their characteristics and suitability for use as concrete aggregates, road fill or for other applications
- Conduct geological and geophysical studies for regional development and advise in areas such as site selection, waste management and restoration of contaminated sites
- Recommend the acquisition of lands, exploration and mapping programs and mine development
- Identify and advise on anticipated natural risks such as slope erosion, landslides, soil instability, subsidence, earthquakes and volcanic eruptions
- May supervise and coordinate well drilling, completion and work-overs and mining activities.

Geologists may specialize in fields such as coal geology, environmental geology, geochronology, hydrogeology, mineral deposits or mining, petroleum geology, stratigraphy, tectonics, volcanology or in other fields.

Geochemists may specialize in analytical geochemistry, hydrogeochemistry, mineral or petroleum geochemistry or in other fields.

Geophysicists may specialize in areas, such as petroleum geology, earth physics, geodesy, geoelectromagnetism, seismology or in other fields.

Oceanographers

- Conduct theoretical and applied oceanographic research programs and expeditions to extend knowledge of the physical, chemical and biological properties and functioning of oceans
- Plan, direct and participate in sampling and analysis of seawater, plankton, fish, sediments and rocks
- Study physical properties of oceans to develop models, charts and computer simulations of ocean conditions, such as tides, waves, currents and sediment transport
- Explore ocean floor and submarine geological structures, conduct seismic surveys and study formation of ocean basins and other structures to map ocean floor, coastal erosion, sediment accumulation and areas for offshore oil and gas exploration

- Plan and conduct investigations on ocean chemical properties and processes, ocean floor and marine atmosphere and undersea volcanoes to study impacts of environmental changes
- Study marine life and interaction with physical and chemical environments to assess impacts of pollutants on marine ecology and to develop ecologically-based methods of seafarming.

Oceanographers may specialize in biological, chemical, geological or physical oceanography, or in other fields related to the study of oceans.

Employment requirements

- Geoscientists require a university degree in geology, geochemistry, geophysics or a related discipline.
- A master's or doctoral degree in geophysics, physics, mathematics or engineering may be required for employment as a geophysicist.
- Registration with a provincial or territorial association of professional engineers, geologists, geophysicists or geoscientists is usually required for employment and is mandatory to practice in all provinces and territories except Prince Edward Island and the Yukon.
- Geologists and geophysicists are eligible for registration following graduation from an accredited educational program and after several years of supervised work experience and, in some provinces, after passing a professional practice examination.
- Oceanographers require a university degree in science, mathematics, statistics or engineering and usually require a graduate degree in oceanography.

Additional information

- Mobility between specializations in this group is possible with experience.
- Progression to supervisory or higher level positions is possible with experience in this unit group.
- Advancement to management positions in mining, petroleum and other industries is possible with experience.

21103 Meteorologists and climatologists

Meteorologists and climatologists analyze and forecast weather, provide consultation on atmospheric phenomena and conduct research into the processes and phenomena of weather, climate and atmosphere. They are employed by all levels of government, natural resources and utility companies, the media and private consulting firms, or they may be self-employed.

Illustrative example(s)

- air quality meteorologist
- climatologist
- hydrometeorologist
- meteorologist
- operational meteorologist

Inclusion(s)

- weather forecaster

Exclusion(s)

- Weather reporter (See 52114-Announcers and other broadcasters)

Main duties

This group performs some or all of the following duties:

- Analyze and interpret data obtained from meteorological stations, radar and satellite imagery and computer model output
- Produce weather forecasts and provide weather consulting services for industries such as aviation, marine, agriculture and tourism, and to the general public
- Disseminate weather forecasts and reports to the general public through a variety of media including radio, television, print and the Internet
- Conduct research and provide consultation on the processes and determinants of atmospheric phenomena, weather and climate, atmospheric dispersion, and physical and chemical transformation of pollutants
- Develop and test mathematical computer models of weather and climate for experimental or operational use
- Analyze the impact of industrial projects and human activity on the climate and quality of the air and work with the social science, engineering and economic communities to develop appropriate mitigation strategies
- Participate in studies of the effect of weather on the environment
- Provide consultation and advice to outside agencies, professionals, or researchers regarding the use and interpretation of climatological information
- Make scientific presentations, publish reports, articles or popular texts for specialists, users or the general public
- May engage in the design and development of new equipment and procedures for meteorological data collection, remote sensing, or for related applications.

Employment requirements

- A bachelor's or master's degree in meteorology, atmospheric sciences or in a related field is required.
- A doctoral degree is usually required for employment as a research scientist in meteorology.
- Formal training is provided by Environment Canada for operational meteorologists employed by the federal government.
- Membership in the Canadian Meteorological and Oceanographic Society is available, but voluntary, for qualified meteorologists.

21109 Other professional occupations in physical sciences

Professionals in other physical sciences occupations conduct theoretical and applied research in fields of physical science. Metallurgists, soil scientists and physical scientists and researchers are included in this unit group. They are employed by governments, educational institutions and a wide range of industrial establishments.

Illustrative example(s)

- astronaut
- ballistics examiner
- materials scientist
- metallurgist
- physical metallurgist
- research scientist - ceramics
- research scientist - composite materials
- soil scientist

Exclusion(s)

- Air pilots, flight engineers and flying instructors (72600)
- Architecture and science managers (20011)
- Chemists (21101)
- Metallurgical and materials engineers (21322)

Main duties

This group performs some or all of the following duties:

Metallurgists

- Conduct studies into the properties and production of metals and alloys.

Soil scientists

- Conduct research into the composition, distribution and evolution of soils.

Materials scientists

- Conduct research into the properties, composition and production of materials such as ceramics and composite materials.

Astronauts

- Command, pilot or serve as crew members of a spacecraft to conduct scientific experiments and research, and participate in space missions as mission specialists to maintain spacecraft, install and repair space station equipment and launch and recapture satellites.

Employment requirements

- A bachelor's degree in metallurgy, physics, chemistry, or a related physical science discipline is required.
- A master's or doctoral degree is usually required for employment as a research scientist.
- Advanced degrees in a broad range of applied science areas, such as engineering or medicine
or
Licences may be required for some occupations in this unit group.

Additional information

- Mobility between specializations in this group may be possible with experience.
- Mobility is possible with experience, to other fields of physical science or to management or regulatory program management.

2111 Life science professionals

This minor group comprises life science professionals, including biologists and related scientists, forestry professionals, and agricultural representatives, consultants and specialists. They are employed by governments; consulting, agricultural, resource, utilities, chemical, pharmaceutical and biotechnical companies; agricultural, health and educational institutions; and forestry and other industries; or they may be self-employed.

21110 Biologists and related scientists

Biologists and related scientists conduct basic and applied research to extend knowledge of living organisms, to manage natural resources, and to develop new practices and products related to medicine and agriculture. They are employed in both laboratory and field settings by governments, environmental consulting companies, resource

and utilities companies, chemical, pharmaceutical, biotechnical companies, hospitals and health, research and educational institutions.

Illustrative example(s)

- anatomist
- bacteriologist
- bioinformatician
- biologist
- botanist
- cell biologist
- ecologist
- embryologist
- geneticist
- histologist
- immunologist
- marine biologist
- microbiologist
- molecular biologist
- mycologist
- parasitologist
- pharmacologist
- physiologist
- protozoologist
- toxicologist
- virologist
- zoologist

Exclusion(s)

- Architecture and science managers (20011)
- Biochemist (See 21101-Chemists)
- Specialists in clinical and laboratory medicine (31100)

Main duties

This group performs some or all of the following duties:

Biologists

- Plan and conduct studies of the environment, and of the population, distribution, structure and functional characteristics and behaviour of plants and animals
- Conduct ecological and environmental impact studies and prepare reports
- Study, identify and classify plant and animal specimens
- Conduct experiments in plant or animal growth, heredity and breeding
- Prepare reports and plans for management of renewable resources
- May supervise biological technologists and technicians and other scientists.

Microbiologists and cell and molecular biologists

- Conduct research into the structure, function, ecology, biotechnology and genetics of micro-organisms, including bacteria, fungi, protozoans, and algae
- Conduct research into the structure and functioning of human, animal and plant tissues and cells
- Conduct studies into the identification, effects and control of human, plant and animal pathogens and toxins
- Conduct clinical or laboratory studies to test, evaluate and screen drugs, pharmaceuticals and nanoparticles used in biomedical applications
- Conduct molecular or biochemical studies and experiments in genetic expression, gene manipulation and recombinant DNA technology to develop new or alternative methods of producing products
- Conduct research in biotechnology to discover, develop and refine, and evaluate new products
- May participate in the commercialization of new products
- May supervise biological technologists and technicians and other scientists
- May conduct biostatistical data analysis using computer modelling techniques.

Biologists and related scientists may specialize at the macroscopic level, in fields such as botany, zoology, ecology and marine biology or, at the cellular and molecular level, in fields such as genetics, immunology, pharmacology, toxicology, physiology, pathology, bacteriology, virology, biotechnology and bioinformatics.

Employment requirements

- A bachelor's degree in biology or in a related discipline is required for biologists.
- A master's or doctoral degree in biology or a related discipline is required for employment as a research scientist in biology.
- Post-doctoral research experience is usually required before employment in academic departments or research institutions.
- Biologists are regulated in Alberta and British Columbia.

21111 Forestry professionals

Forestry professionals conduct research, develop plans and administer and direct programs related to the management and harvesting of forest resources. They are employed by the forest industry, provincial and federal governments, consulting companies, educational institutions and other industries, or they may be self-employed.

Illustrative example(s)

- appraisal forester
- consulting forester
- district forester
- forester
- regional inventory officer - forestry
- registered professional forester (RPF)

Inclusion(s)

- forest engineer
- superintendent - forestry

Exclusion(s)

- Forest economist (See 41401-Economists and economic policy researchers and analysts)
- Forestry operations manager (See 80010-Managers in natural resources production and fishing)
- Forestry policy director - government services (See 40011-Government managers - economic analysis, policy development and program administration)
- Forestry programs manager - government services (See 40011-Government managers - economic analysis, policy development and program administration)
- Research director - forestry (See 20011-Architecture and science managers)
- Woodlands manager (See 80010-Managers in natural resources production and fishing)

Main duties

This group performs some or all of the following duties:

- Plan and direct forest surveys and related studies and prepare reports and recommendations
- Establish short- and long-term plans for management of forest lands and forest resources
- Plan and direct woodlands harvesting, reforestation, silviculture and fire prevention and fire suppression programs, road building, wildlife management, environmental protection and insect and vegetation control programs
- Negotiate terms and conditions of agreements and contracts for forest harvesting, forest management and leasing of forest lands
- Monitor contract compliance and results of forestry activities
- Ensure adherence to government regulations and company objectives
- Plan and conduct public relations programs, and education and extension programs related to forestry
- Develop and oversee programs for tree seedling production and woodlands nursery operations
- Conduct advanced research in the areas of tree improvement, nursery seedling production, forest soils, forest ecology, forest mensuration, forest operations and other areas
- Provide advice and recommendations, as a consultant on forestry issues, to private woodlot owners, municipal, provincial or federal governments or to companies.

Employment requirements

- A bachelor's degree in forestry or forestry engineering is required.
- Registration with a regulatory body is required in all provinces except Prince Edward Island and Manitoba.
- A two-year practicum of supervised work experience and professional examinations are usually required before registration.

Additional information

- Supervisory and senior occupations in this unit group require additional experience.
- With experience, mobility is possible to management positions in government and industry.

21112 Agricultural representatives, consultants and specialists

Agricultural representatives, consultants and specialists provide assistance and advice to farmers on all aspects of farm management, cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They are employed by businesses, institutions and governments that assist the farming community, or they may be self-employed.

Illustrative example(s)

- agricultural consultant
- agricultural extension supervisor
- agricultural livestock specialist
- agricultural representative
- agricultural soil and crop specialist
- agriculturist
- agrologist
- agronomist
- consulting agrologist
- crop specialist
- farm management consultant
- field service adviser - agriculture
- field service agent - agriculture
- growers' advisor
- professional agrologist (P.Ag.)

Exclusion(s)

- Agricultural engineer (See 21399-Other professional engineers)
- Agricultural policy director - government services (See 40011-Government managers - economic analysis, policy development and program administration)
- Agricultural programs manager - government services (See 40011-Government managers - economic analysis, policy development and program administration)
- Agricultural representatives director (See 20011-Architecture and science managers)
- Agrology technician (See 22110-Biological technologists and technicians)
- Biologists and related scientists (21110)
- Landscape and horticulture technicians and specialists (22114)

Main duties

This group performs some or all of the following duties:

- Provide counselling and advisory services to farmers on crop cultivation and fertilization, harvesting, animal and poultry care, disease prevention, farm management, farm financing, marketing and other agricultural subjects
- Prepare and conduct advisory information sessions and lectures for farmers and other groups
- Conduct research, analyze agricultural data and prepare research reports
- Liaise with researchers, educators and government or business managers on matters pertaining to farming and agriculture
- Maintain records of services provided and the effects of advice given
- May operate unmanned aerial vehicle/drone to map drainage, plant seeds, analyze crop health and identify areas of stress and evenly spray fertilizers or pesticides.

Agricultural representatives, consultants and specialists may specialize in specific aspects of agriculture such as animal science, field crops, horticulture, soil science, irrigation or drainage, farm management, marketing, agricultural economics, land use, and environmental management, appraisal or extension and education.

Employment requirements

- A bachelor's or master's degree in agriculture or in a related science is required.
- Membership or eligibility for membership in a provincial institute of agronomy is usually required.
- In Quebec, membership in the Ordre professionnel des agronomes is mandatory.

Additional information

- Progression to management positions is possible with experience.

2112 Public and environmental health and safety professionals

This minor group comprises public and environmental health and safety professionals. They are employed throughout the public and private sectors.

21120 Public and environmental health and safety professionals

Public and environmental health and safety professionals review, evaluate and monitor public health and environmental safety hazards and develop strategies to prevent, control and eliminate disease and environmental impact caused by biological and chemical factors. They inspect restaurants, industrial establishments, municipal water systems, public facilities and institutions to ensure compliance with government regulations regarding sanitation, pollution control and the handling and storage of hazardous substances. They are employed throughout the public and private sectors.

Illustrative example(s)

- environmental health officer
- environmental officer
- environmental safety advisor
- hazardous waste inspector
- pollution control inspector
- public health inspector
- public health inspectors supervisor
- public safety consultant
- public safety coordinator
- public safety officer
- restaurant inspector
- rodent control inspector
- water inspector

Exclusion(s)

- By-law enforcement and other regulatory officers (43202)
- Construction inspectors (22233)
- Engineering inspectors and regulatory officers (22231)
- Ergonomist (See 41400-Natural and applied science policy researchers, consultants and program officers)
- Occupational health and safety specialists (22232)
- Occupational hygienist (See 41400-Natural and applied science policy researchers, consultants and program officers)

Main duties

This group performs some or all of the following duties:

- Inspect the sanitary conditions of restaurants, hotels, schools, hospitals and other public facilities or institutions
- Conduct surveys and monitoring programs of the natural environment to identify sources of pollution
- Collect biological and chemical samples and specimens for analysis; measure physical, biological and chemical; and conduct safety and environmental audits
- Investigate health and safety related complaints, spills of hazardous chemicals, outbreaks of diseases or poisonings
- Inspect workplaces to ensure that equipment, materials and production processes do not present environmental hazards to the environment or a health and safety hazard to employees or to the general public
- Lead the development and the implementation of public safety and environmental health and safety programs and strategies to mitigate risk and optimize the general public and worker's health and safety and environmental protection
- Initiate enforcement procedures to fine or to close an establishment contravening municipal, provincial or federal regulations
- Provide consultation and deliver training programs to employers, employees and the general public on issues of public health, environmental protection or workplace safety.

Employment requirements

- A bachelor's degree in a discipline such as food science, environmental studies, chemistry or health and safety is usually required.
- Public health inspectors employed outside Quebec require certification with the Canadian Institute of Public Health Inspectors.
- Environmental health and safety professionals may require certification with the Board of Canadian Registered Safety Professionals (BCRSP).

212 Professional occupations in applied sciences (except engineering)

This sub-major group comprises professional occupations in applied sciences, other than engineering, including architects, urban planners and land surveyors; mathematicians, statisticians, actuaries and data scientists; computer and information systems professionals; and computer, software and Web designers and developers.

2120 Architects, urban planners and land surveyors

This minor group comprises architects, landscape architects, urban and land use planners and land surveyors. They are employed by governments; architectural, engineering, construction, real estate development, natural resource, landscape consulting, and other consulting companies; land developers and land surveying establishments; and government environmental and development agencies; or they may be self-employed.

21200 Architects

Architects conceptualize, plan and develop designs for the construction and renovation of commercial, institutional and residential buildings. They are employed by architectural firms, private corporations and governments, or they may be self-employed.

Illustrative example(s)

- architect
- architectural standards specialist

- chief architect
- consulting architect
- industrial and commercial buildings architect
- residential architect

Exclusion(s)

- Architecture and science managers (20011)
- Database architect (See 21223-Database analysts and data administrators)
- Landscape architects (21201)
- Naval architect (See 21399-Other professional engineers)
- Software architect (See 21231-Software engineers and designers)
- Structural engineer (See 21300-Civil engineers)
- Technical architect - hardware (See 21311-Computer engineers (except software engineers and designers))

Main duties

This group performs some or all of the following duties:

- Consult with clients to determine the type, style and purpose of renovations or new building construction being considered
- Conceptualize and design buildings and develop plans describing design specifications, building materials, costs and construction schedules
- Prepare sketches and models for clients
- Prepare or supervise the preparation of drawings, specifications and other construction documents for use by contractors and tradespersons
- Prepare bidding documents, participate in contract negotiations and award construction contracts
- Monitor activities on construction sites to ensure compliance with specifications
- Conduct feasibility studies and financial analyses of building projects.

Architects may specialize in a particular type of construction such as residential, commercial, industrial or institutional.

Employment requirements

- A bachelor's degree from an accredited school of architecture
or
Completion of the syllabus of studies from the Royal Architectural Institute of Canada (RAIC) is required.
- A master's degree in architecture may be required.
- Completion of a three-year internship under the supervision of a registered architect is required.
- Completion of the architect registration examination is required.
- Registration with a provincial regulatory body is required in all provinces and the Northwest Territories.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

Additional information

- Progression to senior positions, such as chief architect, is possible with experience.

21201 Landscape architects

Landscape architects conceptualize, design, plan and manage the construction of natural, cultural and built landscape development for commercial projects, office complexes, parks, golf courses and residential development. They are employed by government environmental and development agencies, landscape consulting firms and by architectural and engineering firms, or they are self-employed.

Illustrative example(s)

- landscape architect
- senior landscape architect

Exclusion(s)

- Architects (21200)
- Landscape and horticulture technicians and specialists (22114)
- Landscape architecture manager (See 20011-Architecture and science managers)
- Landscape design contractor (See 82031-Contractors and supervisors, landscaping, grounds maintenance and horticulture services)
- Urban and land use planners (21202)

Main duties

This group performs some or all of the following duties:

- Confer with clients to determine design needs
- Survey and assess designated sites and develop designs taking into consideration landscape features, buildings, climate, future usage and other aspects
- Prepare or oversee the preparation of detailed drawings for sites, including features such as trees, shrubs, gardens, lighting, walkways, patios, decks, benches, fences, retaining walls and fountains
- Prepare or oversee preparation of site plans, reports, sketches, models, photographs, maps, land use studies, design plans such as landscape grading, drainage or planting, and construction details
- Estimate costs, prepare specifications and evaluate tenders for landscape construction projects
- Conduct environmental design studies, including environmental assessment, planning and the preservation and re-creation of historical sites
- Conduct community and neighbourhood physical planning studies, participate in multidisciplinary urban design studies, prepare design guidelines, and develop master plans
- May manage and supervise landscape construction work.

Employment requirements

- A bachelor's degree in landscape architecture is required.
- A master's degree in landscape architecture may be required.
- Registration with a regulatory body is required in Ontario, Alberta and British Columbia.
- In the remaining provinces and territories, landscape architects usually require two years of landscape design experience and an interview by their respective provincial associations to receive association certification.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

21202 Urban and land use planners

Urban and land use planners develop plans and recommend policies for managing land use, physical facilities and associated services for urban and rural areas and remote regions. They are employed by all levels of government, land developers, engineering and other consulting companies, or may work as private consultants.

Illustrative example(s)

- community and urban planner
- environmental planner
- land use planner
- municipal planner
- park planner
- planner
- recreation planner
- regional planner
- urban planner

Exclusion(s)

- Architects (21200)
- Architecture and science managers (20011)
- Engineering managers (20010)
- Land surveyors (21203)

Main duties

This group performs some or all of the following duties:

- Compile and analyze data on demographic, economic, legal, political, cultural, sociological, physical and other factors affecting land use
- Confer with municipal, provincial and federal authorities, civic leaders, social scientists, lawyers, land developers, the public and special interest groups to formulate and develop land use or community plans
- Prepare and recommend land development concepts and plans for zoning, subdivisions, transportation, public utilities, community facilities, parks, agricultural and other land uses
- Prepare plans for environmental protection, such as wildlife preserves, national and provincial parks, and protection of watersheds
- Present plans to civic, rural and regional authorities and hold public meetings to present plans, proposals or planning studies to the general public and special interest groups
- Review and evaluate proposals for land use and development plans and prepare recommendations
- Process application for land development permits and administer land use plans and zoning by-laws
- Formulate long-range objectives and policies relative to future land use and the protection of the environment
- Supervise and coordinate work of urban planning technicians and technologists.

Employment requirements

- A bachelor's degree in urban and regional planning, geography, architecture, engineering or a related discipline is required.
- A master's degree in one of these disciplines may be required.

- Membership in the Canadian Institute of Planners is usually required.
- Urban and land use planners are regulated in Nova Scotia, New Brunswick, Quebec, Alberta, the Northwest Territories and Nunavut, and membership in a provincial planning institute may be required in other provinces.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

Additional information

- Progression to management positions in planning is possible with experience.

21203 Land surveyors

Land surveyors plan, direct and conduct legal surveys to establish the location of real property boundaries, contours and other natural or human-made features, and prepare and maintain cross-sectional drawings, official plans, records and documents pertaining to these surveys. They are employed by federal, provincial and municipal governments, private sector land surveying establishments, real estate development, natural resource, engineering and construction firms, or they may be self-employed.

Illustrative example(s)

- cadastral surveyor
- Canada lands surveyor
- city surveyor
- land surveyor
- property surveyor

Inclusion(s)

- land survey supervisor

Exclusion(s)

- Civil engineering technologists and technicians (22300)
- Engineering managers (20010)
- Geomatics engineer (See 21300-Civil engineers)
- Hydrographic surveyor - geology (See 21102-Geoscientists and oceanographers)
- Land survey technologists and technicians (22213)
- Survey engineer (See 21300-Civil engineers)
- Technical occupations in geomatics and meteorology (22214)
- Urban and land use planners (21202)

Main duties

This group performs some or all of the following duties:

- Develop survey plans, methods and procedures for conducting legal surveys
- Plan, direct and supervise or conduct surveys to establish and mark legal boundaries of properties, parcels of lands, provincial and Canada Lands, Aboriginal land claims, wellsites, mining claims, utility rights-of-way, roadways and highways
- Survey and lay out subdivisions for rural and urban development

- Determine precise locations using electronic distance measuring equipment, global positioning systems (GPS), and unmanned aerial vehicles (UAV)/drones
- Analyze, manage and display data using geographic information systems (GIS) and computer-aided design and drafting (CAD)
- Record all measurements and other information obtained during survey activities
- Prepare or supervise the preparation and compilation of all data, plans, charts, records and documents related to surveys of real property boundaries
- Certify and assume liability for surveys made to establish real property boundaries
- Advise, provide consultation and testify as an expert witness on matters related to legal surveys
- May supervise other land surveyors, and land survey technologists and technicians.

Employment requirements

- A bachelor's degree in geomatics engineering or survey engineering or a college diploma in survey science or geomatics technology with additional academic credits and successful completion of equivalent examinations set by a regional board of examiners for land surveyors is required.
- A one- to three-year articling period is required.
- Successful completion of professional land surveyor examinations is required.
- A federal or provincial land surveyor's licence is required.

Additional information

- Federal statutes require a separate licence from the Association of Canada Land Surveyors to survey areas such as national parks, Aboriginal lands, offshore areas and northern territories.

2121 Mathematicians, statisticians, actuaries and data scientists

This minor group comprises mathematicians, statisticians, actuaries and data scientists. They are employed by universities, governments, bank and trust companies, insurance companies, pension benefit consulting firms, professional associations, science and engineering consulting firms, information technology consulting firms and in information technology units throughout the public and private sectors.

21210 Mathematicians, statisticians and actuaries

Mathematicians and statisticians research mathematical or statistical theories, and develop and apply mathematical or statistical techniques for solving problems in such fields as science, engineering, business and social science. Actuaries apply mathematics, statistics, probability and risk theory to assess potential financial impacts of future events. Mathematicians, statisticians and actuaries are employed by universities, governments, bank and trust companies, insurance companies, pension benefit consulting firms, professional associations, and science and engineering consulting firms.

Illustrative example(s)

- actuary
- biostatistician
- consulting actuary
- demographer
- insurance actuary
- mathematician
- statistical analyst
- statistician

Exclusion(s)

- Financial advisors (11102)
- Financial and investment analysts (11101)
- Financial auditors and accountants (11100)
- Financial managers (10010)
- Insurance, real estate and financial brokerage managers (10020)
- Other financial officers (11109)
- Statistical officers and related research support occupations (12113)

Main duties

This group performs some or all of the following duties:

Mathematicians

- Conduct research to extend mathematical knowledge in traditional areas of mathematics such as algebra, geometry, probability and logic
- Apply mathematical techniques to the solution of problems in scientific fields such as physical science, engineering, computer science or other fields such as operations research, business or management.

Statisticians

- Conduct research into the mathematical basis of the science of statistics
- Develop statistical methodology and advise on the practical application of statistical methodology
- Apply statistical theory and methods to provide information in scientific and other fields such as biological and agricultural science, business and economics, physical sciences and engineering, and the social sciences.

Actuaries

- Apply mathematical models to forecast and calculate the probable future costs of insurance and pension benefits
- Design life, health, and property insurance policies, and calculate premiums, contributions and benefits for insurance policies, and pension and superannuation plans
- May assist investment fund managers in portfolio asset allocation decisions and risk management. They also use these techniques to provide legal evidence on the value of future earnings.

Employment requirements

- Mathematicians and statisticians usually require a graduate degree in mathematics or statistics.
- Actuaries usually require post-secondary education in actuarial science, mathematics, statistics, economics, commerce or business administration.
- Actuaries are conferred fellowships through the Canadian Institute of Actuaries upon successful completion of professional examinations
and
Three years of work experience in the actuarial field as an actuarial assistant or in a related position.

Additional information

- With experience, actuaries may progress to managerial positions in consulting, insurance and finance. They may also be self-employed.

21211 Data scientists

Data scientists use advanced analytics technologies, including machine learning and predictive modelling, to support the identification of trends, scrape information from unstructured data sources and provide automated recommendations. They are employed by consulting firms, universities, banks and information technology departments in the public and private sectors.

Illustrative example(s)

- data scientist
- machine learning engineer
- machine learning specialist
- quantitative analyst

Inclusion(s)

- artificial intelligence (AI) analyst
- artificial intelligence (AI) consultant
- artificial intelligence (AI) designer

Exclusion(s)

- Computer and information systems managers (20012)
- Computer engineers (except software engineers and designers) (21311)
- Database analysts and data administrators (21223)
- Information systems specialists (21222)
- Mathematicians, statisticians and actuaries (21210)
- Software engineers and designers (21231)

Main duties

This group performs some or all of the following duties:

- Implement cutting-edge techniques and tools in machine learning, deep learning and artificial intelligence to make data analysis more efficient
- Perform large-scale experimentation to identify hidden relationships between variables in large datasets
- Create advanced machine learning algorithms such as regression, simulation, scenario analysis, modeling, clustering, decision trees and neural networks
- Prepare and extract data using programming language
- Implement new statistical, machine learning, or other mathematical methodologies to solve specific business problems
- Visualize data in a way that allows a business to quickly draw conclusions and make decisions
- Develop artificial intelligence models and algorithms and implement them to meet the needs of the organization
- Coordinate research and analysis activities using unstructured and structured data and use programming to clean and organize data.

Employment requirements

- A bachelor's degree in statistics, mathematics, computer science, computer systems engineering or a related discipline or completion of a college program in computer science is usually required.

- A master's or doctoral degree in machine learning, data science, or a related quantitative field is usually required.
- Experience in programming is usually required.
- Experience in statistical modelling and machine learning is usually required.

2122 Computer and information systems professionals

This minor group comprises computer and information systems professionals, including cybersecurity specialists, business systems specialists, information systems specialists, and database analysts and data administrators. They are employed by computer software development and information technology consulting, research and development companies; advertising agencies; and in information technology units throughout the public and private sectors; or they may be self-employed.

21220 Cybersecurity specialists

Cybersecurity specialists develop, plan, recommend, implement, improve and monitor security measures to protect an organization's computer networks, connected devices and information to prevent unauthorized access, use, disclosure, disruption, modification, or destruction of the information or of the systems on which the information resides. They are employed in information technology consulting firms and in information technology units throughout the public and private sectors.

Illustrative example(s)

- cybersecurity analyst
- informatics security analyst
- informatics security consultant
- information technology (IT) security specialist
- systems security analyst

Exclusion(s)

- Business systems specialists (21221)
- Computer and information systems managers (20012)
- Computer engineers (except software engineers and designers) (21311)
- Computer systems developers and programmers (21230)
- Database analysts and data administrators (21223)
- Information systems specialists (21222)
- Software developers and programmers (21232)
- Software engineers and designers (21231)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Confer with clients to identify and document requirements, assess physical and technical security risks to data, software and hardware
- Apply encryption protocols, and manage keys to ensure security of data is maintained while at rest and in transit
- Monitor access and credentials for information and systems

- Install, test and operate security software and tools such as anti-virus and automated threat detection/prevent systems to ensure security measures are in place and working as intended
- Monitor for cyber attacks, intrusions and unusual, unauthorised or illegal activity
- Plan and carry out security measures in response to cybersecurity events and incidents in accordance with an organization's incident response plan to protect information, data and systems
- Document computer security and emergency measures policies, procedures, and tests.

Employment requirements

- A bachelor's degree in computer science, computer security, computer systems engineering, information systems or completion of a college program in information technology, network administration or other computer science related program is usually required.
- Certification or training provided by software vendors may be required by some employers.

21221 Business systems specialists

Business systems specialists perform detailed system tests, produce reports and develop new system architectures. They must also identify the strategic objectives of a company and translate these objectives into achievable tasks for an organization's information technology department. They are employed in information technology consulting firms and in information technology units throughout the public and private sectors.

Illustrative example(s)

- business systems analyst
- business systems consultant
- business systems specialist - computer systems
- information systems business analyst
- information technology (IT) business analyst

Exclusion(s)

- Computer and information systems managers (20012)
- Cybersecurity specialists (21220)
- Database analysts and data administrators (21223)
- Information systems specialists (21222)
- Professional occupations in business management consulting (11201)

Main duties

This group performs some or all of the following duties:

- Confer with clients to identify and document requirements
- Analyze information systems processes, and propose customized solutions to improve performance and efficiency
- Design, develop, integrate, test and implement information systems business solutions
- Provide advice on information systems strategy, policy, management, security and service delivery
- Act as a liaison between the business units, technology teams and support teams
- Conduct tests to ensure the reliability, accuracy, and functionality of system changes and enhancements.

Employment requirements

- A bachelor's degree in computer science, business administration, information systems or a related discipline or completion of a college program in computer science is usually required.
- Certification or training may be required by some employers.

21222 Information systems specialists

Information systems specialists analyze, test and assess systems requirements, develop and implement information systems development plans, policies and procedures, and provide advice on a wide range of information systems issues. They are employed in information technology consulting firms and in information technology units throughout the public and private sectors, or they may be self-employed.

Illustrative example(s)

- computer systems analyst
- informatics consultant
- information systems quality assurance (QA) analyst
- information technology (IT) consultant
- management information systems (MIS) analyst
- systems auditor
- systems consultant

Exclusion(s)

- Computer and information systems managers (20012)
- Computer engineers (except software engineers and designers) (21311)
- Computer systems developers and programmers (21230)
- Data scientists (21211)
- Database analysts and data administrators (21223)
- Financial auditors and accountants (11100)
- Professional occupations in business management consulting (11201)
- Software developers and programmers (21232)
- Software engineers and designers (21231)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Design, develop, test, implement and oversee IT systems
- Collect and analyze data to identify areas for improvement within an organization's IT infrastructure
- Review existing IT systems and internal processes
- Develop, implement and apply policies and procedures throughout the software development life cycle to maximize the efficiency, effectiveness and overall quality of software products and information systems, and to ensure that all systems and processes meet organization standards and user requirements
- Develop quality assurance procedures and tests for the development and improvement of new and existing systems

- Identify, analyze and document discrepancies and ensure that appropriate adjustments are made
- Perform preventive maintenance tasks on computer systems.

Employment requirements

- A bachelor's degree in computer science, computer systems engineering, software engineering, business administration or a related discipline or completion of a college program in computer science is usually required.
- Experience as a computer programmer is usually required.
- Certification or training provided by software vendors may be required by some employers.
- A professional certification such as Certified Information Systems Auditor (CISA), Certified Information Security Manager (CISM), Certified Internal Auditor (CIA) or another related information technology (IT) designation.

21223 Database analysts and data administrators

Database analysts design, develop and administer data management solutions. Data administrators develop and implement data administration policy, standards and models. They are employed in information technology consulting firms and in information technology units throughout the public and private sectors.

Illustrative example(s)

- data administrator
- data custodian
- data dictionary administrator
- data warehouse analyst
- database administrator (DBA)
- database analyst
- database architect
- technical architect - database

Exclusion(s)

- Computer and information systems managers (20012)
- Computer engineers (except software engineers and designers) (21311)
- Computer systems developers and programmers (21230)
- Information systems specialists (21222)
- Software developers and programmers (21232)
- Software engineers and designers (21231)

Main duties

This group performs some or all of the following duties:

Database analysts

- Collect and document user requirements
- Design and develop database architecture for information systems projects
- Design, construct, modify, integrate, implement and test data models and database management systems
- Conduct research and provide advice to other informatics professionals regarding the selection, application and implementation of database management tools

- Operate database management systems to analyze data and perform data mining analysis
- May lead, coordinate or supervise other workers in this group.

Data administrators

- Develop and implement data administration policy, standards and models
- Research and document data requirements, data collection and administration policy, data access rules and security
- Develop policies and procedures for network and/or Internet database access and usage and for the backup and recovery of data
- Conduct research and provide advice to other information systems professionals regarding the collection, availability, security and suitability of data
- Write scripts related to stored procedures and triggers
- May lead and coordinate teams of data administrators in the development and implementation of data policies, standards and models.

Employment requirements

- A bachelor's degree or college program, usually in computer science, computer engineering, or in mathematics is usually required.
- Computer programming and related experience is usually required.

2123 Computer, software and Web designers and developers

This minor group comprises computer, software and Web designers and developers, including computer systems developers and programmers, software engineers and designers, software developers and programmers, Web designers, and Web developers and programmers. They are employed by computer software development and information technology consulting, research and development companies; advertising agencies; and in information technology units throughout the public and private sectors; or they may be self-employed.

21230 Computer systems developers and programmers

Computer systems developers and programmers write, modify, integrate and test computer code for software applications, data processing applications, operating systems-level software and communications software. They are employed in computer software development firms, information technology consulting firms, and in information technology units throughout the public and private sectors.

Illustrative example(s)

- computer programmer
- operating systems programmer
- programmer analyst
- scientific programmer
- systems programmer

Exclusion(s)

- Computer network and web technicians (22220)
- Database analysts and data administrators (21223)
- Electronic business (e-business) manager (See 10022-Advertising, marketing and public relations managers)
- Information systems specialists (21222)

- Information systems testing technicians (22222)
- Software engineers and designers (21231)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Write, modify, integrate and test software code
- Maintain existing computer programs by making modifications as required
- Identify and communicate technical problems, processes and solutions
- Prepare reports, manuals and other documentation on the status, operation and maintenance of software
- Assist in the collection and documentation of user requirements
- Assist in the development of logical and physical specifications
- May lead and coordinate teams of computer programmers
- May research and evaluate a variety of software products.

Employment requirements

- A bachelor's degree or college diploma program in computer science, computer engineering or in another discipline with a significant programming component.
- Specialization in programming for engineering and scientific applications requires specific post-secondary study or experience.

Additional information

- Progression to information systems analyst is possible with experience.

21231 Software engineers and designers

Software engineers and designers research, design, evaluate, integrate and maintain software applications, technical environments, operating systems, embedded software, information warehouses and telecommunications software. They are employed in information technology consulting firms, information technology research and development firms, and information technology units throughout the private and public sectors, or they may be self-employed.

Illustrative example(s)

- application architect
- computer software engineer
- embedded software designer
- embedded software engineer
- software architect
- software design engineer
- software design verification engineer
- software designer
- software testing engineer
- telecommunications software engineer

Inclusion(s)

- systems architect

Exclusion(s)

- Computer and information systems managers (20012)
- Computer engineer (except software) (See 21311-Computer engineers (except software engineers and designers))
- Computer systems developers and programmers (21230)
- Database analysts and data administrators (21223)
- Electrical and electronics engineers (21310)
- Information systems specialists (21222)
- Information systems testing technicians (22222)
- Software developers and programmers (21232)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Collect and document users' requirements and develop logical and physical specifications
- Research, evaluate and synthesize technical information to design, develop and test computer-based systems including mobile applications
- Develop data, process and network models to optimize architecture and to evaluate the performance and reliability of designs
- Plan, design and coordinate the development, installation, integration and operation of computer-based systems including mobile applications
- Assess, test, troubleshoot, document, upgrade and develop maintenance procedures for operating systems, communications environments and applications software
- May lead and coordinate teams of information systems professionals in the development of software and integrated information systems, process control software and other embedded software control systems.

Employment requirements

- A bachelor's degree, usually in computer science, computer systems engineering, software engineering or mathematics
or
Completion of a college program in computer science is usually required.
- A master's or doctoral degree in a related discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering, and passing a professional practice examination.
- Experience as a computer programmer is usually required.

21232 Software developers and programmers

Software developers and programmers design, write, and test code for new systems and software to ensure efficiency. They create the foundations for operative systems and run diagnostic programs to certify effectiveness.

They are employed in computer software, computer and video game development firms, information technology consulting firms, and in information technology units throughout the public and private sectors.

Illustrative example(s)

- application programmer
- computer game developer
- electronic business (e-business) software developer
- interactive media developer
- multimedia developer
- software developer
- software programmer

Exclusion(s)

- Computer applications engineer (See 21231-Software engineers and designers)
- Computer network and web technicians (22220)
- Computer systems developers and programmers (21230)
- Database analysts and data administrators (21223)
- Electronic business (e-business) manager (See 10022-Advertising, marketing and public relations managers)
- Graphic designers and illustrators (52120)
- Information systems specialists (21222)
- Information systems testing technicians (22222)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Design, write, read, test, and correct code for new software
- Analyze information to recommend and plan the installation of new systems or modifications of an existing system
- Evaluate simple interrelationships between programs such as whether a contemplated change in one part of a program would cause unwanted results in a related part
- Program animation software to predefined specifications for interactive video games, Internet and mobile applications
- Write, modify, integrate and test software code for e-commerce, Internet and mobile applications
- Develop, implement, modify and maintain gameplay features that integrate effectively into existing software
- Write documentation for new and updated software.

Employment requirements

- A bachelor's degree in computer science or software engineering or in another discipline with a significant programming component or completion of a college program in computer science or related field is usually required.
- Experience as a computer programmer is usually required.

Additional information

- Progression to software engineer is possible with experience.

21233 Web designers

Web designers develop and create the visual presentation, layout and functionality of websites and related applications. They are responsible for ensuring that the website is easy to use, and that the information is easy to access. Web designers are employed in computer software development firms, information technology consulting firms, information technology units throughout the public and private sectors, advertising agencies or they may be self-employed.

Illustrative example(s)

- Internet site designer
- Intranet site designer
- Web designer

Exclusion(s)

- Computer network and web technicians (22220)
- Electronic business (e-business) manager (See 10022-Advertising, marketing and public relations managers)
- Graphic designers and illustrators (52120)
- Information systems specialists (21222)
- Information systems testing technicians (22222)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Establish design guidelines, standards and optimal design practices
- Maintain the appearance of websites by applying content standards
- Designing visual imagery for websites and ensuring that it is consistent with the organization image
- Integrate features and functionalities into Web sites
- Create and optimize content for the Web site using a variety of graphics, database, animation and other software
- Test and improve the design of a Web site
- May lead and coordinate multidisciplinary teams to develop Web site graphics, content, capacity and interactivity.

Employment requirements

- A bachelor's degree in computer science or graphic design
or
Completion of a college program in computer science, graphic arts, or Web design is required.
- Experience as a graphic designer is usually required.

21234 Web developers and programmers

Web developers and programmers use a variety of programming languages to design, create and modify websites. They analyze users' needs to implement content, graphics, performance, and website capacity. They may also integrate websites with other computer applications. They are employed in computer software development firms, information technology consulting firms, information technology units throughout the public and private sectors, advertising agencies or they may be self-employed.

Illustrative example(s)

- electronic business (e-business) Web site developer
- Internet site developer
- Web developer
- Web manager
- Web programmer
- Web site developer

Exclusion(s)

- Computer network and web technicians (22220)
- Electronic business (e-business) manager (See 10022-Advertising, marketing and public relations managers)
- Information systems specialists (21222)
- Information systems testing technicians (22222)
- Network systems engineer (See 21311-Computer engineers (except software engineers and designers))
- Software developers and programmers (21232)
- Web designers (21233)

Main duties

This group performs some or all of the following duties:

- Develop, write, modify, integrate and test Web site related code and web application interfaces
- Conduct tests and analyze data to monitor quality, security, user interface experiences and to identify areas for improvement
- Develop and implement procedures for ongoing Web site revision
- Monitor and maintain Web site functionality
- May participate in Web site architecture and design in collaboration with designers or clients
- May research and evaluate a variety of interactive media software products.

Employment requirements

- A bachelor's degree, usually in computer science, computer programming, web development or software engineering
or
completion of a college program in computer science or related field is usually required.
- Experience as a computer programmer is usually required.

213 Professional occupations in engineering

This sub-major group comprises professional occupations in engineering, including civil and mechanical engineers; electrical, electronics and computer engineers; manufacturing and processing engineers; natural resources engineers; and other engineers.

2130 Civil and mechanical engineers

This minor group comprises civil and mechanical engineers. They are employed by governments; engineering, consulting and construction companies; a wide range of manufacturing, processing and transportation industries; or they may be self-employed.

21300 Civil engineers

Civil engineers plan, design, develop and manage projects for the construction or repair of buildings, earth structures, powerhouses, roads, airports, railways, rapid transit facilities, bridges, tunnels, canals, dams, ports and coastal installations and systems related to highway and transportation services, water distribution and sanitation. Civil engineers may also specialize in foundation analysis, building and structural inspection, surveying, geomatics and municipal planning. They are employed by engineering consulting companies, in all levels of government, by construction firms and in many other industries, or they may be self-employed.

Illustrative example(s)

- bridge engineer
- civil engineer
- construction engineer
- construction project engineer
- environmental engineer
- geodetic engineer
- geomatics engineer
- highway engineer
- hydraulics engineer
- municipal engineer
- public works engineer
- sanitation engineer
- structural engineer
- surveying engineer
- traffic engineer
- transportation engineer
- water management engineer

Inclusion(s)

- spatial information systems engineer

Exclusion(s)

- Construction managers (70010)
- Engineering managers (20010)
- Environmental chemical engineer (See 21320-Chemical engineers)

- Geological engineers (21331)
- Managers in transportation (70020)

Main duties

This group performs some or all of the following duties:

- Confer with clients and other members of the engineering team and conduct research to determine project requirements
- Plan and design major civil projects such as buildings, roads, bridges, dams, water and waste management systems and structural steel fabrications
- Develop construction specifications and procedures
- Evaluate and recommend appropriate building and construction materials
- Interpret, review and approve survey and civil design work
- Conduct field services for civil works
- Ensure construction plans meet guidelines and specifications of building codes and other regulations
- Establish and monitor construction work schedules
- Conduct feasibility studies, economic analyses, municipal and regional traffic studies, environmental impact studies or other investigations
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Conduct technical analyses of survey and field data for development of topographic, soil, hydrological or other information and prepare reports
- Act as project or site supervisor for land survey or construction work
- Prepare contract documents and review and evaluate tenders for construction projects
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

Employment requirements

- A bachelor's degree in civil engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

Additional information

- There is considerable mobility between civil engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21301 Mechanical engineers

Mechanical engineers research, design and develop machinery and systems for heating, ventilating and air conditioning, power generation, transportation, processing and manufacturing. They also perform duties related to the evaluation, installation, operation and maintenance of mechanical systems. They are employed by consulting firms, by power-generating utilities and in a wide range of manufacturing, processing and transportation industries, or they may be self-employed.

Illustrative example(s)

- acoustics engineer
- automotive engineer
- design engineer - mechanical
- energy conservation engineer
- fluid mechanics engineer
- heating, ventilation and air conditioning (HVAC) engineer
- mechanical engineer
- mechanical maintenance engineer
- nuclear engineer
- piping engineer
- power generation engineer
- refrigeration engineer
- robotics engineer
- thermal design engineer
- tool engineer

Exclusion(s)

- Engineering managers (20010)
- Industrial and manufacturing engineers (21321)
- Metallurgical and materials engineers (21322)
- Power engineer (See 92100-Power engineers and power systems operators)
- Stationary engineer (See 92100-Power engineers and power systems operators)

Main duties

This group performs some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems
- Plan and manage projects, and prepare material, cost and timing estimates, reports and design specifications for machinery and systems
- Design power plants, machines, components, tools, fixtures and equipment
- Analyze dynamics and vibrations of mechanical systems and structures
- Supervise and inspect the installation, modification and commissioning of mechanical systems at construction sites or in industrial facilities
- Develop maintenance standards, schedules and programs and provide guidance to industrial maintenance crews
- Investigate mechanical failures or unexpected maintenance problems

- Prepare contract documents and evaluate tenders for industrial construction or maintenance
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

Employment requirements

- A bachelor's degree in mechanical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is considerable mobility between mechanical engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Mechanical engineers work closely with civil, electrical, aerospace, chemical, industrial and other engineers, and mobility is possible between some fields of specialization in these disciplines.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2131 Electrical, electronics and computer engineers

This minor group comprises electrical, electronics and computer engineers other than software engineers and designers. They are employed by electrical utilities, telecommunications companies, manufacturers of electrical and electronic equipment, consulting firms, computer and telecommunication hardware manufacturers, and by a wide range of manufacturing, processing and transportation industries, by governmental, educational and research institutions and in information technology units throughout the public and private sectors.

21310 Electrical and electronics engineers

Electrical and electronics engineers design, plan, research, evaluate and test electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and by a wide range of manufacturing, processing and transportation industries and government.

Illustrative example(s)

- avionics engineer
- control systems engineer
- electrical design engineer
- electrical distribution planning engineer
- electrical engineer
- electrical network engineer
- electrical process control engineer
- electrical systems planning engineer
- electronics engineer
- electronics test engineer

- instrumentation and control engineer
- roadway lighting design engineer
- television systems engineer

Exclusion(s)

- Computer and information systems managers (20012)
- Computer engineers (except software engineers and designers) (21311)
- Electrical and electronics engineering technologists and technicians (22310)
- Engineering managers (20010)
- Software engineers and designers (21231)

Main duties

This group performs some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of electrical generation and distribution networks, electrical machinery and components and electronic communications, instrumentation and control systems, equipment, and components
- Prepare material cost and timing estimates, reports and design specifications for electrical and electronic systems and equipment
- Design electrical and electronic circuits, components, systems and equipment
- Conduct micro or nanodevices simulations, characterization, process modeling and integration in the development of new electronic devices and products
- Supervise and inspect the installation, modification, testing and operation of electrical and electronic systems and equipment
- Develop maintenance and operating standards for electrical and electronic systems and equipment
- Investigate electrical or electronic failures
- Prepare contract documents and evaluate tenders for construction or maintenance
- Supervise technicians, technologists, programmers, analysts and other engineers.

Electrical and electronics engineers may specialize in a number of areas including electrical design for residential, commercial or industrial installations, electrical power generation and transmission, and instrumentation and control systems.

Employment requirements

- A bachelor's degree in electrical or electronics engineering or in an appropriate related engineering discipline is required.
- A master's or doctoral degree in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

Additional information

- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21311 Computer engineers (except software engineers and designers)

Computer engineers (except software engineers and designers) research, plan, design, develop, modify, evaluate and integrate computer and telecommunications hardware and related equipment, and information and communication system networks including mainframe systems, local and wide area networks, fibre-optic networks, wireless communication networks, intranets, the Internet and other data communications systems. They are employed by computer and telecommunication hardware manufacturers, by engineering, manufacturing and telecommunications firms, in information technology consulting firms, by governmental, educational and research institutions and in information technology units throughout the private and public sectors.

Illustrative example(s)

- computer hardware engineer
- fibre-optic network designer
- hardware circuit board designer
- hardware development engineer
- hardware technical architect
- network test engineer
- systems designer - hardware
- telecommunications hardware engineer
- wireless communications network engineer

Exclusion(s)

- Business systems specialists (21221)
- Computer and information systems managers (20012)
- Computer systems developers and programmers (21230)
- Cybersecurity specialists (21220)
- Electrical and electronics engineering technologists and technicians (22310)
- Electrical and electronics engineers (21310)
- Engineering managers (20010)
- Information systems specialists (21222)
- Software developers and programmers (21232)
- Software engineers and designers (21231)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

Computer and telecommunications hardware engineers

- Analyze user requirements, and design and develop system architecture and specifications

- Research, design, develop and integrate computer and telecommunications hardware such as microprocessors, integrated circuit boards and semiconductor lasers
- Develop and conduct design verification simulations and prototype bench tests of components
- Supervise, inspect and provide design support during the manufacturing, installation and implementation of computer and telecommunications hardware
- Establish and maintain relationships with suppliers and clients
- May lead and coordinate teams of engineers, technologists, technicians and drafters in the design and development of computer and telecommunications hardware.

Network system and data communication engineers

- Research, design and develop information and communication system network architecture
- Research, evaluate and integrate network system and data communication hardware and software
- Assess, document and optimize the capacity and performance of information and communication system networks
- May lead and coordinate teams of design professionals in the development and integration of information and communication system architecture, hardware and software.

Computer engineers may specialize in a number of areas including analog and digital signal processing, fibre optics, integrated circuits, lasers, microprocessors, microwaves and radio astronomy.

Employment requirements

- Computer engineers require a bachelor's degree in computer engineering, electrical or electronics engineering, engineering physics or computer science.
- A master's or doctoral degree in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2132 Manufacturing and processing engineers

This minor group comprises manufacturing and processing engineers, including chemical engineers, industrial and manufacturing engineers, and metallurgical and materials engineers. They are employed in a wide range of manufacturing and processing industries, consulting firms, government, financial, health care institutions, research and educational institutions or they may be self-employed.

21320 Chemical engineers

Chemical engineers research, design, and develop chemical processes and equipment, oversee the operation and maintenance of industrial chemical, plastics, pharmaceutical, resource, pulp and paper, and food processing plants and perform duties related to chemical quality control, environmental protection and biochemical or biotechnical engineering. They are employed in a wide range of manufacturing and processing industries, consulting firms, government, research and educational institutions.

Illustrative example(s)

- adhesives engineer
- biochemical engineer
- biotechnical engineer
- chemical process control engineer
- chemical process engineer
- chemical project engineer
- environmental chemical engineer
- industrial hygiene engineer
- industrial waste treatment engineer
- liquid fuels engineer
- petrochemical engineer
- polymer engineer
- pulp and paper engineer
- refinery engineer
- waste treatment engineer

Inclusion(s)

- pipeline transport engineer

Exclusion(s)

- Agricultural engineer (See 21399-Other professional engineers)
- Biomedical engineer (See 21399-Other professional engineers)
- Chemists (21101)
- Civil environmental engineer (See 21300-Civil engineers)
- Electrical process control engineer (See 21310-Electrical and electronics engineers)
- Engineering managers (20010)
- Metallurgical and materials engineers (21322)
- Petroleum engineers (21332)

Main duties

This group performs some or all of the following duties:

- Conduct economic and technical feasibility studies in areas related to chemical, petroleum, pulp and paper, food or other processing industries
- Conduct research into the development or improvement of chemical engineering processes, reactions and materials
- Evaluate chemical process technology and equipment and determine production specifications
- Design and test chemical processing and associated plants and equipment
- Oversee the construction, modification, operation and maintenance of pilot plants, processing units or processing plants
- Establish and conduct quality control programs, operating procedures and control strategies to ensure consistency and adherence to standards for raw materials, products and waste products or emissions
- Prepare contract documents and evaluate tenders for the process aspects of industrial construction

- Supervise technicians, technologists and other engineers
- May work in an administrative capacity, for example, in the development of guidelines and specifications for the handling of dangerous chemicals, environmental protection, or standards for foods, materials and consumer goods.

Chemical engineers may specialize in the products and processes of a particular industry such as pulp and paper manufacturing, pharmaceuticals, petroleum refining, energy processing, plastics, metal extraction and refining, or adhesives and coatings production. They may also specialize in functional areas of various industries such as process control, pollution control or fermentation processes.

Employment requirements

- A bachelor's degree in chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is considerable mobility between chemical engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Chemical engineers work closely with chemists and other scientists and engineers and mobility is possible between some fields of specialization.

21321 Industrial and manufacturing engineers

Industrial and manufacturing engineers conduct studies, and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity. They are employed in consulting firms, manufacturing and processing companies, in government, financial, health care and other institutions, or they may be self-employed.

Illustrative example(s)

- computer integrated manufacturing (CIM) engineer
- fire prevention engineer
- industrial engineer
- manufacturing engineer
- plant engineer
- production engineer
- quality control engineer
- safety engineer
- work measurement engineer

Exclusion(s)

- Computer engineers (except software engineers and designers) (21311)
- Engineering managers (20010)
- Mechanical engineers (21301)
- Metallurgical and materials engineers (21322)
- Organizational analyst (See 11201-Professional occupations in business management consulting)

Main duties

This group performs some or all of the following duties:

- Plan and design plant layouts and facilities
- Study new machinery and facilities and recommend or select efficient combinations
- Develop flexible or integrated manufacturing systems and procedures
- Conduct studies and implement programs to determine optimum inventory levels for production and to allow optimum utilization of machinery, materials and resources
- Analyze costs of production
- Design, develop and conduct time studies and work simplification programs
- Determine human resource and skill requirements and develop training programs
- Develop performance standards, evaluation systems and wage and incentive programs
- Conduct studies of the reliability and performance of plant facilities and production or administrative systems
- Develop maintenance standards, schedules and programs
- Establish programs and conduct studies to enhance industrial health and safety or to identify and correct fire and other hazards
- Evaluate or assess industrial facilities
- Supervise technicians, technologists, analysts, administrative staff and other engineers.

Employment requirements

- A bachelor's degree in industrial engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- Industrial engineers develop and implement organizational and management systems, and manufacturing engineers design production processes.
- There is considerable mobility between industrial engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21322 Metallurgical and materials engineers

Metallurgical and materials engineers conduct studies of the properties and characteristics of metals and other non-metallic materials and plan, design and develop machinery and processes to concentrate, extract, refine and process metals, alloys and other materials such as ceramics, semiconductors and composite materials. They are employed in consulting engineering firms, mining, metal processing and manufacturing companies, and in government, research and educational institutions.

Illustrative example(s)

- ceramics engineer
- corrosion engineer
- electrometallurgical engineer
- foundry engineer
- hydrometallurgical engineer
- materials engineer
- metallurgical engineer
- physical metallurgical engineer
- pyrometallurgical engineer
- welding engineer

Exclusion(s)

- Chemical engineers (21320)
- Chemists (21101)
- Engineering managers (20010)
- Materials scientist (See 21109-Other professional occupations in physical sciences)
- Mining engineers (21330)
- Physical metallurgist (See 21109-Other professional occupations in physical sciences)

Main duties

This group performs some or all of the following duties:

- Conduct studies and design, develop and specify the processes, and machinery to concentrate, extract, refine and process metals from ores
- Conduct studies on the properties and characteristics of materials and design, develop and specify processes for moulding, shaping, forming and thermal treatment of metals, alloys and metallic systems, ceramics, semiconducting and other materials
- Conduct chemical and physical analytical studies, failure analyses and other studies and recommend material selection, design of materials, corrosion control measures, operational testing and other procedures
- Coordinate production testing and control of metal refining, smelting or foundry operations or non-metallic materials production operations
- Supervise technologists, technicians and other engineers and scientists.

Employment requirements

- A bachelor's degree in metallurgical, materials, ceramic or chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.

- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- Metallurgical engineers research and develop new alloys and systems for extracting metal from ores; materials engineers research and develop new non-metallic materials with physical characteristics to meet specific requirements.
- There is considerable mobility between engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Metallurgical and materials engineers work closely with other engineers and scientists and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2133 Natural resources engineers

This minor group comprises natural resources engineers, including mining engineers, geological engineers and petroleum engineers. They are employed by governments; consulting, engineering, mining, petroleum, electrical utilities, well logging or testing companies; and research and educational institutions.

21330 Mining engineers

Mining engineers plan, design, organize and supervise the development of mines, mine facilities, systems and equipment; and prepare and supervise the extraction of metallic or non-metallic minerals and ores from underground or surface mines. They are employed by mining companies, consulting engineering companies, manufacturers, government and in educational and research institutions.

Illustrative example(s)

- mine design engineer
- mine development engineer
- mine layout engineer
- mine production engineer
- mine safety engineer
- mine ventilation engineer
- mineral engineer
- mining engineer

Exclusion(s)

- Engineering managers (20010)
- Geological engineers (21331)
- Geoscientists and oceanographers (21102)
- Metallurgical and materials engineers (21322)

- Mine manager (See 80010-Managers in natural resources production and fishing)
- Petroleum engineers (21332)

Main duties

This group performs some or all of the following duties:

- Conduct preliminary surveys and studies of ore, mineral or coal deposits to assess the economic and environmental feasibility of potential mining operations
- Determine the appropriate means of safely and efficiently mining deposits
- Determine and advise on appropriate drilling and blasting methods for mining, construction or demolition
- Design shafts, ventilation systems, mine services, haulage systems and supporting structures
- Design, develop and implement computer applications such as for mine design, mine modelling, mapping or for monitoring mine conditions
- Plan and design or select mining equipment and machinery and mineral treatment machinery and equipment in collaboration with other engineering specialists
- Plan, organize and supervise the development of mines and mine structures and the operation and maintenance of mines
- Prepare operations and project estimates, schedules and reports
- Implement and coordinate mine safety programs
- Supervise and coordinate the work of technicians, technologists, survey personnel, and other engineers and scientists.

Employment requirements

- A bachelor's degree in mining engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- Supervisory and senior positions in this unit group require experience.
- Mining engineers work closely with geologists, geological engineers, metallurgical engineers, and other engineers and scientists, and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21331 Geological engineers

Geological engineers conduct geological and geotechnical studies to assess suitability of locations for civil engineering, mining and oil and gas projects; and plan, design, develop and supervise programs of geological data acquisition and analysis and the preparation of geological engineering reports and recommendations. They are employed in consulting engineering companies, electrical utilities, mining and petroleum companies and in government and research and educational institutions.

Illustrative example(s)

- geological engineer
- geophysical engineer
- hydrogeological engineer - engineering

Exclusion(s)

- Civil engineers (21300)
- Engineering managers (20010)
- Geoscientists and oceanographers (21102)
- Land surveyors (21203)
- Mining engineers (21330)
- Petroleum engineers (21332)

Main duties

This group performs some or all of the following duties:

- Plan, develop and coordinate programs of geotechnical, geological, geophysical or geohydrological data acquisition, analysis and mapping to assist in the development of civil engineering, mining, petroleum and waste management projects or for regional development
- Analyze and prepare recommendations and reports for construction or improvements to foundations of civil engineering projects such as rock excavation, pressure grouting and hydraulic channel erosion control
- Analyze and prepare recommendations and reports on settlement of buildings, stability of slopes and fills, and probable effects of landslides and earthquakes to support construction and civil engineering projects
- Conduct theoretical and applied study of groundwater flow and contamination and develop prescriptions for site selection, treatment and construction
- Plan, develop, coordinate and conduct theoretical and experimental studies in mining exploration, mine evaluation and feasibility studies relative to the mining industry
- Conduct surveys and studies of ore deposits, ore reserve calculations and mine design
- Design, develop and implement computer applications for geophysics, geochemistry, geology, mapping and related fields
- Supervise technologists, technicians and other engineers and scientists.

Employment requirements

- A bachelor's degree in geological engineering or in a related discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is considerable mobility between engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.

- Geological engineers work closely with geologists and other scientists and engineers, and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21332 Petroleum engineers

Petroleum engineers conduct studies for the exploration, development and extraction of oil and gas deposits; and plan, design, develop and supervise projects for the drilling, completion, testing and re-working of oil and gas wells. They are employed by petroleum producing companies, consulting companies, well logging or testing companies, government, and research and educational institutions.

Illustrative example(s)

- oil and gas drilling engineer
- oil and gas production engineer
- petroleum engineer
- petroleum reservoir engineer
- petroleum well completion engineer
- subsea engineer

Exclusion(s)

- Chemical engineers (21320)
- Contractors and supervisors, oil and gas drilling and services (82021)
- Engineering managers (20010)
- Geological engineers (21331)
- Geoscientists and oceanographers (21102)

Main duties

This group performs some or all of the following duties:

- Conduct feasibility assessment studies for developing new oil and gas fields
- Direct and monitor oil and gas drilling operations
- Develop drilling programs, select sites and specify drilling fluids, bit selection, drill stem testing procedures and equipment
- Direct and monitor the completion and evaluation of wells, well testing and well surveys
- Design and select artificial lift machinery, and well and surface production equipment and systems, and specify programs for corrosion control and oil or gas treatment
- Develop specifications for and monitor and supervise well modification and stimulation programs to maximize oil and gas recovery
- Analyze reservoir rock and fluid data to design optimum recovery methods and to predict reservoir performance and reserves
- Monitor and forecast oil and gas reservoir performance and recommend oil recovery techniques which extend the economic life of wells
- Design, develop and coordinate the installation, maintenance and operation of subsea well-head and production equipment.

Petroleum engineers may specialize in drilling, production, reservoir analysis or subsea operations.

Employment requirements

- A bachelor's degree in petroleum engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is mobility between petroleum engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

2139 Other engineers

This minor group comprises aerospace engineers and other professional engineers.

21390 Aerospace engineers

Aerospace engineers research, design and develop aerospace vehicles, aerospace systems and their components, and perform duties related to their testing, evaluation, installation, operation and maintenance. They are employed by aircraft and spacecraft manufacturers, air transport carriers, and in government and educational and research institutions.

Illustrative example(s)

- aerodynamics engineer
- aeronautical engineer
- aerospace engineer
- aerospace structural engineer
- aerospace systems engineer
- aerospace test engineer
- aircraft design engineer
- stress engineer - aerospace

Exclusion(s)

- Aircraft maintenance engineer (AME) - avionics (See 22313-Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Aircraft maintenance engineer (AME) (except avionics) (See 72404-Aircraft mechanics and aircraft inspectors)
- Avionics engineer (See 21310-Electrical and electronics engineers)
- Engineering managers (20010)
- Mechanical engineers (21301)
- Metallurgical and materials engineers (21322)

Main duties

This group performs some or all of the following duties:

- Design and develop aerospace vehicles, systems and components such as aircraft, spacecraft, missiles, satellites and space-based communication systems
- Develop and conduct computer simulations of aerospace vehicles, systems and components using advanced mathematical modelling
- Prepare specifications for materials and processes to be used in aerospace manufacturing, maintenance, repair or modification
- Supervise and coordinate the manufacturing, assembly, modification, repair and overhaul of aircraft and spacecraft
- Coordinate ground and flight tests of air and spacecraft
- Develop operational specifications, maintenance schedules and manuals for operators
- Develop the technical phases of logistical and operational support for aerospace vehicles and systems
- Investigate and report on structural or other component or system failures, accidents or incidents and prepare recommendations for corrective action.

Employment requirements

- A bachelor's degree in aerospace engineering or in a related engineering discipline, such as mechanical engineering or engineering physics, is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is considerable mobility between aerospace engineering specializations at the less senior levels.
- Supervisory and senior positions in this unit group require experience.
- Aerospace engineers work closely with other scientists and engineers and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

21399 Other professional engineers

Other professional engineers include agricultural and bioresource engineers, biomedical engineers, engineering physicists and engineering scientists, marine and naval engineers, textile engineers and other specialized engineering occupations.

Illustrative example(s)

- agricultural engineer
- biomedical engineer
- bioresource engineer
- engineering physicist

- engineering scientist
- food processing engineer
- marine engineer
- naval architect
- textile engineer

Exclusion(s)

- Biochemical and biotechnical engineer (See 21320-Chemical engineers)
- Engineering managers (20010)
- Marine engineer officer - water transport (See 72603-Engineer officers, water transport)
- Physicist (See 21100-Physicists and astronomers)

Main duties

This group performs some or all of the following duties:

Agricultural and bio-resource engineers

- Design and develop machinery, structures, equipment and systems related to agriculture and food processing.

Biomedical engineers

- Design and develop medical diagnostic and clinical instrumentation, equipment and procedures; develop devices to assist persons with disabilities; advise hospital administrators on planning, acquisition and use of medical equipment; and modify and install or supervise installation of equipment.

Engineering physicists and engineering scientists

- Conduct research, develop processes, programs and equipment to expand fundamental knowledge in the applied sciences and engineering and to support advanced engineering and scientific applications.

Marine and naval engineers

- Design and develop marine vessels and floating structures and associated marine power plants, propulsion systems and related systems and equipment and oversee the building, maintenance and repair of vessels and marine systems.

Textile engineers

- Design and develop processes, equipment and procedures for the production of fibres, yarns and textiles.

Employment requirements

- A bachelor's degree in an appropriate engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports, and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.

Additional information

- There is limited mobility between the engineering specializations included in this unit group.
- Supervisory and senior positions in this unit group require experience.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

22 Technical occupations related to natural and applied sciences

This major group comprises technical occupations related to natural sciences; technical occupations related to applied sciences and engineering. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

221 Technical occupations related to natural sciences

This sub-major group comprises technical occupations related to natural sciences, including technical occupations in physical sciences and technical occupations in life sciences.

2210 Technical occupations in physical sciences

This minor group comprises technical occupations in physical sciences, including chemical technologists and technicians, and geological and mineral technologists and technicians. They are employed by research and development and quality control laboratories; consulting geology and engineering firms, chemical, petrochemical, pharmaceutical, construction, petroleum and mining companies; utilities; in manufacturing and processing industries; and by government, health and educational establishments.

22100 Chemical technologists and technicians

Chemical technologists and technicians provide technical support and services or may work independently in chemical engineering, chemical and biochemical research and analysis, industrial chemistry, chemical quality control and environmental protection. They are employed by research and development and quality control laboratories, consulting engineering companies, in chemical, petrochemical, pharmaceutical and a variety of other manufacturing and processing industries, and by utilities, health, educational and government establishments.

Illustrative example(s)

- biochemistry technologist
- chemical analyst
- chemical engineering technician
- chemical engineering technologist
- chemical laboratory analyst
- chemical research technician
- chemical technician
- chemical technologist
- food technologist
- formulation technician

- geochemical technician
- industrial hygiene technologist
- mass spectrometer technician
- master dyer - textiles
- paint technician
- pilot plant technician
- quality control technician - chemical processing
- quality control technician - food processing

Inclusion(s)

- documents examiner - applied chemistry
- forensic handwriting expert

Exclusion(s)

- Medical laboratory biochemistry technologist (See 32120-Medical laboratory technologists)
- Process technician - chemical processing (See 93101-Central control and process operators, petroleum, gas and chemical processing)

Main duties

This group performs some or all of the following duties:

Chemical technologists

- Set up and conduct chemical experiments, tests and analyses using techniques such as chromatography, spectroscopy, physical and chemical separation techniques and microscopy
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas or liquid, reagents, and sample formulations
- Compile records and interpret experimental or analytical results
- Develop and conduct programs of sampling and analysis to maintain quality standards of raw materials, chemical intermediates and products
- Assist in the development of chemical engineering processes, studies of chemical engineering procurement, construction, inspection and maintenance and the development of standards, procedures and health and safety measures
- Operate experimental chemical or petrochemical pilot plants
- Conduct or assist in air and water quality testing and assessments, environmental monitoring and protection activities, and development of and compliance with standards
- Assist in synthesis of small molecules for the purpose of creating drug candidates
- Assist in the design and fabrication of experimental apparatus.

Chemical technicians

- Assist in setting up and conducting chemical experiments, tests and analyses
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas and liquid, reagents and sample formulations
- Compile records for analytical studies
- Assist in developing and conducting programs of sampling and analysis to maintain quality standards

- Carry out a limited range of other technical functions in support of chemical research, tests and analyses, and environmental air and water quality monitoring and protection
- Assist in the design and fabrication of experimental apparatus.

Employment requirements

- Chemical technologists usually require completion of a two- or three-year college program in chemical, biochemical or chemical engineering technology or a closely related discipline.
- Chemical technicians usually require completion of a one- or two-year college program in chemical, biochemical or chemical engineering technology.
- National certification for chemical technologists and technicians is available through the Canadian Society for Chemical Technology.
- Certification in chemical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- Chemical technologists and technicians are regulated in Quebec and Alberta.
- A period of supervised work experience, usually two years, is required before certification.

Additional information

- Considerable mobility is possible among jobs within this occupational group.
- Progression to managerial positions is possible with experience.
- Some chemical technologists and technicians working in support of fundamental research in chemistry or biochemistry are university graduates.

22101 Geological and mineral technologists and technicians

Geological and mineral technologists and technicians provide technical support and services or may work independently in the fields of oil and gas exploration and production, geophysics, petroleum engineering, geology, mining and mining engineering, mineralogy, extractive and physical metallurgy, metallurgical engineering and environmental protection. They are employed by petroleum and mining companies, consulting geology and engineering firms, and by governments and educational institutions as well as by a variety of manufacturing, construction and utilities companies.

Illustrative example(s)

- assayer
- geological technician
- geophysical technologist
- groundwater technologist
- log technician
- marine geoscience technologist
- metallurgical technologist
- mineralogy technician
- mining engineering technologist
- mining technologist
- petroleum engineering technologist
- petroleum technician
- petrology technician

- reservoir engineering technician
- rock mechanics technician
- seismic technician
- welding technologist

Inclusion(s)

- laboratory technician - metallurgy

Exclusion(s)

- Chemical laboratory technician (See 22100-Chemical technologists and technicians)
- Chemical laboratory technologist (See 22100-Chemical technologists and technicians)
- Civil engineering technologists and technicians (22300)
- Contractors and supervisors, oil and gas drilling and services (82021)
- Electrical and electronics engineering technologists and technicians (22310)
- Supervisors, mining and quarrying (82020)
- Technical occupations in geomatics and meteorology (22214)

Main duties

This group performs some or all of the following duties:

Geological and mineral technologists

- Conduct or direct geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs
- Configure, operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Prepare, transcribe or analyze seismic, gravimetric, well log or other geophysical and survey data
- Assist engineers and geologists in the evaluation and analysis of petroleum and mineral reservoirs
- Prepare or supervise the preparation of rock, mineral or metal samples and perform physical and chemical laboratory tests
- Conduct or assist in environmental audits, in the design of measures to minimize undesirable environmental effects of new or expanded mining and oil and gas operations, and in the development of waste management and other related environmental protection procedures
- May supervise oil and gas well drilling, well completions and work-overs
- May conduct or supervise studies and programs related to mine development, mining methods, mine ventilation, lighting, drainage and ground control
- May assist engineers and metallurgists in specifying material selection, metal treatments or corrosion protection systems
- May assist hydrogeologists in evaluating groundwater and well circulation and in report preparation
- May develop specifications for heat treatment of metals or for welding, design welding fixtures, troubleshoot welding processes or quality problems and supervise welding projects
- May coordinate crew members' activities during seismic tests.

Geological and mineral technicians

- Participate in geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs and in environmental audits and related environmental protection activities
- Operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Assist in preparing, transcribing or analyzing seismic, gravimetric, well log or other geophysical and survey data
- Assist in the preparation of rock, mineral or metal samples and in conducting physical and chemical laboratory tests
- Assist in hydrogeological field and laboratory studies and in preparation of reports
- Carry out a limited range of other technical functions in support of geology, geophysics and petroleum and mining engineering.

Employment requirements

- Geological and mineral technologists usually require completion of a two- to three-year college program in geological technology, petroleum technology, petroleum engineering technology, hydrogeology or groundwater technology, mining technology, mining engineering technology, mineralogy, metallurgical technology, or welding technology.
- Geophysics technologists usually require completion of a two- to three-year college program in electronics technology.
- Geological and mineral technicians usually require completion of a one- to two-year college program in a related field.
- Certification in geological and mineral technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”
- A period of supervised work experience, usually two years, is required before certification.

Additional information

- There is limited mobility among occupations in this group.
- Mobility may be possible between geophysical technology and electronic technology.
- Mobility may be possible between some occupations in this group and related fields of civil engineering technology.

2211 Technical occupations in life sciences

This minor group comprises technical occupations in life sciences, including biological technologists and technicians, agricultural and fish products inspectors, forestry technologists and technicians, conservation and fishery officers, and landscape and horticulture technicians and specialists. They are employed by governments and government agencies; manufacturers of food products, chemicals and pharmaceuticals; biotechnology, resource, utilities, environmental and other consulting companies; health, research, educational and other institutions; forestry and other industries; landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses; and municipal, provincial and national parks; or they may be self-employed.

22110 Biological technologists and technicians

Biological technologists and technicians provide technical support and services to scientists, engineers and other professionals working in fields such as agriculture, resource management, environmental protection, plant and animal biology, microbiology, cell and molecular biology and health sciences, or may work independently in these fields. They are employed in both laboratory and field settings by governments, manufacturers of food products, chemicals and pharmaceuticals, biotechnology companies, health, research and educational institutions, environmental consulting companies, and resource and utilities companies.

Illustrative example(s)

- agricultural technician
- agricultural technologist
- agrology technician
- aquaculture technician
- bacteriological technician
- biological laboratory technologist
- botanical technician
- fish hatchery technician
- fisheries technician
- food bacteriological technician
- microbiology quality control technologist
- microbiology technologist (except medical)
- plant breeding technician
- seed technologist
- wildlife biology technician

Exclusion(s)

- Agricultural and fish products inspectors (22111)
- Biochemistry laboratory technician (See 22100-Chemical technologists and technicians)
- Biochemistry technologist (See 22100-Chemical technologists and technicians)
- Biologists and related scientists (21110)
- Biomedical engineering technologist (See 22310-Electrical and electronics engineering technologists and technicians)
- Conservation and fishery officers (22113)
- Forestry technologists and technicians (22112)
- Medical laboratory assistants and related technical occupations (33101)
- Medical laboratory technologists (32120)

Main duties

This group performs some or all of the following duties:

Biological technologists

- Set up and conduct biological, microbiological and biochemical tests and laboratory analyses in support of research and quality control in food production, sanitation, pharmaceutical production, biotechnology and other fields

- Apply methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy
- Perform experimental procedures in agriculture, plant breeding, animal husbandry, biology and biomedical research
- Conduct field research and surveys to collect data and samples of water, soil, and plant and animal populations
- Conduct environmental monitoring and compliance activities for the protection of fisheries stock, wildlife and other natural resources
- Analyze data and prepare reports
- Conduct or supervise operational programs such as fish hatchery, greenhouse and livestock production programs.

Biological technicians

- Assist in conducting biological, microbiological and biochemical tests and laboratory analyses
- Perform limited range of technical functions in support of agriculture, plant breeding, animal husbandry, biology, biomedical research and environmental protection
- Assist in conducting field research and surveys to collect data and samples of water, soil, and plant and animal populations
- Assist in analysis of data and preparation of reports.

Employment requirements

- Completion of a two- to three-year college program in a field related to agriculture, biology, microbiology, wildlife or resource management is usually required for employment as a biological technologist.
- Completion of a one- to two-year college program in a related field is required for employment as a biological technician.
- Certification with provincial associations is available, but voluntary.

Additional information

- There is limited mobility among occupations in this group.
- Some technologists and technicians working in support of government and academic research in biology are university graduates.

22111 Agricultural and fish products inspectors

Agricultural and fish products inspectors inspect agricultural and fish products for conformity to prescribed production, storage and transportation standards. They are employed by government departments and agencies and by private sector food processing companies. Supervisors of agricultural and fish products inspectors are also included in this unit group.

Illustrative example(s)

- agricultural products inspection supervisor
- agricultural products inspector
- crop certification inspector
- dairy products inspector
- fish inspector
- fish products inspection supervisor
- fish products inspector

- fruit and vegetables inspector
- grain inspector
- livestock inspector
- meat inspector
- plant protection inspector
- poultry inspector

Exclusion(s)

- Biological technologists and technicians (22110)
- Fish grader (See 94143-Testers and graders, food and beverage processing)
- Forestry technologists and technicians (22112)
- Meat grader (See 94143-Testers and graders, food and beverage processing)
- Public and environmental health and safety professionals (21120)

Main duties

This group performs some or all of the following duties:

Fish and fish products inspectors

- Inspect fish, fish products, fish handling and processing methods and prepare reports and ensure that regulations are followed.

Fruit and vegetables inspectors

- Inspect fresh and frozen fruit and vegetables at inspection centres and prepare reports on crop production and market conditions.

Grain inspectors

- Inspect and grade all classes of grain at terminal elevators, monitor the fumigation of infested grain, and examine storage, handling and transportation equipment to ensure that sanitary procedures are followed.

Meat inspectors

- Monitor the operations and sanitary conditions of slaughtering and meat processing plants and inspect carcasses to ensure they are fit for human consumption.

Plant protection inspectors

- Certify seed crops, oversee the quarantine, treatment or destruction of plants and plant products, and the fumigation of plants and plant product imports and exports.

Employment requirements

- Completion of secondary school is required.
- Government inspectors usually require a bachelor's degree or college diploma in agriculture, biology, chemistry, food processing technology or a related discipline.
- Inspectors (other than government) may require a bachelor's degree or college diploma in a related discipline.
- Several years of experience in agricultural production or fish processing are usually required.
- Completion of in-house training courses is required.

Additional information

- Progression to managerial positions in this field is possible with experience.

22112 Forestry technologists and technicians

Forestry technologists and technicians may work independently or perform technical and supervisory functions in support of forestry research, forest management, forest harvesting, forest resource conservation and environmental protection. They are employed by the forest industry sector, provincial and federal governments, consulting firms, and other industries and institutions, or they may be self-employed.

Illustrative example(s)

- conservation technician - forestry
- cruising technician - forestry
- enforcement officer - forestry
- extension ranger - forestry
- fire suppression officer - forestry
- forest fire technician
- forest inventory resource officer
- forest survey technician
- forest technician
- forestry technician
- forestry technologist
- resource technician - forestry
- scaler technician - logging
- scaling coordinator - logging
- silviculture technician

Inclusion(s)

- range manager

Exclusion(s)

- Biological technologists and technicians (22110)
- Conservation and fishery officers (22113)
- Forest engineer (See 21111-Forestry professionals)
- Forester (See 21111-Forestry professionals)
- Supervisors, logging and forestry (82010)

Main duties

This group performs some or all of the following duties:

- Conduct, supervise and participate in forest inventory cruises, surveys and field measurements following accepted scientific and operational procedures
- Assist and perform technical functions in the preparation of forest management and harvest plans using photogrammetric and mapping techniques and computerized information systems
- Assist in planning and supervise construction of access routes and forest roads

- Implement, supervise and perform technical functions in silvicultural operations involving site preparation, planting, and tending of tree crops
- Coordinate activities such as timber scaling, forest fire suppression, disease or insect control or pre-commercial thinning of forest stands
- Supervise and perform technical functions in forest harvesting operations
- Monitor activities of logging companies and contractors and enforce regulations such as those concerning environmental protection, resource utilization, fire safety and accident prevention
- Provide forestry education, advice and recommendations to woodlot owners, community organizations and the general public
- Develop and maintain computer databases
- Supervise forest tree nursery operations
- Provide technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys or experimental forestry and forest engineering research.

Employment requirements

- Completion of a one- to three-year college program in forestry technology or in a renewable resource program or forest ranger program is usually required.
- Registration with a regulatory body is required for forestry technologists or technicians in all provinces except Prince Edward Island and Manitoba.
- Certification or licensing as a scaler is required for some positions.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- Mobility may be possible to occupations in natural resource and wildlife management and in parks management.

22113 Conservation and fishery officers

Conservation and fishery officers, inspectors and observers enforce federal and provincial regulations established for the protection of fish, wildlife and other natural resources and collect and relay information on resource management. They are employed by federal and provincial government departments.

Illustrative example(s)

- conservation officer
- fish and wildlife officer
- fishery officer
- forest ranger - wildlife management
- game officer
- game warden
- natural resources officer
- park ranger

Exclusion(s)

- Biological technologists and technicians (22110)
- Fish inspector (See 22111-Agricultural and fish products inspectors)
- Forestry technologists and technicians (22112)

Main duties

This group performs some or all of the following duties:

- Generate public awareness of fish and wildlife conservation and regulations
- Conduct patrols by truck, aircraft, boat, or on foot, to ensure compliance with the provincial and federal statutes relating to fish, wildlife and the environment
- Investigate complaints, arrest violators, prepare briefs and present evidence in court
- Issue licences, export documents and special permits and collect royalties assessed on fish, wildlife and timber resources
- Implement and supervise approved techniques in preventing or overcoming damage caused by wildlife
- Perform resource protection duties, such as inspecting fishing gear and equipment and monitoring fishing activities for compliance with regulations
- Gather resource data by making inventories of fish, collecting water samples and assisting biologists in scientific research
- Supervise or provide firearms safety training courses and trapper education courses.

Employment requirements

- Completion of a college program in renewable resources management, environmental conservation or a related discipline is usually required.
- On-the-job training and courses related to law enforcement and resource management are provided.
- A class-5 driver's licence, pesticide applicator's licence and explosives licence may be required.

Additional information

- Progression to senior and supervisory positions is possible with experience.

22114 Landscape and horticulture technicians and specialists

Landscape and horticulture technicians and specialists survey and assess landscapes; draw sketches and build models of landscape designs; construct and maintain gardens, parks, golf courses and other landscaped environments; advise clients on issues related to horticulture such as irrigation; breed, cultivate and study plants; and treat injured and diseased trees and plants. They are employed by landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses, and municipal, provincial and national parks, or they may be self-employed.

Illustrative example(s)

- arborist
- golf course superintendent
- greenskeeper
- horticultural technician
- horticulture specialist
- horticulturist

- hydroponics technician
- landscape architectural technician
- landscape designer
- landscape gardener
- landscape technician
- landscaper
- lawn care specialist
- tree service technician

Exclusion(s)

- Biological technologists and technicians (22110)
- Botanist (See 21110-Biologists and related scientists)
- Contractors and supervisors, landscaping, grounds maintenance and horticulture services (82031)
- Forestry technologists and technicians (22112)
- Landscape architects (21201)
- Managers in horticulture (80021)
- Nursery and greenhouse labourers (85103)

Main duties

This group performs some or all of the following duties:

Arborists and tree service technicians

- Examine trees and shrubs to diagnose problems and disease, and apply various treatments such as pruning, spraying, repairing damaged areas and injecting with treatment solutions.

Golf course superintendents

- Direct crews who maintain the health and appearance of golf courses and their surrounding landscapes, plant and move trees, and apply fertilizers, fungicides, herbicides and pesticides.

Horticulturists

- Plan and coordinate the growth and use of plants for landscaping, ornamental uses and other purposes.

Landscape designers and landscape architectural technicians and technologists

- Survey and assess sites, prepare drawings, sketches and reports and perform other duties to assist landscape architects in designing landscaped environments.

Landscape gardeners

- Plant and maintain private and public lawns and gardens.

Landscapers

- Plan and construct landscaped environments which may include trees, shrubberies, lawns, fences, decks, patios and other landscape structures.

Lawn care specialists

- Visit clients, assess the health of lawns, and apply fertilizer, pesticides and other lawn care products.

Employment requirements

- Completion of a two-to-three year college program in agronomy, arboriculture, horticulture, landscaping, landscape design or landscape technology is usually required.
- Experience as a landscape and grounds maintenance labourer may be required for golf course superintendents, landscape gardeners and landscapers.
- An apprenticeship program is available for horticulturists, arboriculturists and landscape gardeners.
- Trade certification for landscape horticulturists is available, but voluntary, in all provinces.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.
- Red Seal endorsement is also available to qualified landscape horticulturists upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.

222 Technical occupations related to applied sciences (except engineering)

This sub-major group comprises technical occupations related to applied sciences other than engineering, including technical occupations in architecture, drafting, surveying, geomatics and meteorology; technical occupations in computer and information systems; and technical inspectors and regulatory officers.

2221 Technical occupations in architecture, drafting, surveying, geomatics and meteorology

This minor group comprises technical occupations in architecture, drafting, surveying, geomatics and meteorology, including architectural technologists and technicians; industrial designers; drafting technologists and technicians; and survey technologists and technicians; and technical occupations in geomatics and meteorology. They are employed by governments; architectural, design, engineering, construction, consulting, media, computer software, forestry, natural resources, utilities and transportation companies; surveying establishments; and in manufacturing industries; or they may be self-employed.

22210 Architectural technologists and technicians

Architectural technologists and technicians may work independently or provide technical assistance to professional architects and civil design engineers in conducting research, preparing drawings, architectural models, specifications and contracts and in supervising construction projects. They are employed by architectural and construction firms, and governments.

Illustrative example(s)

- architectural design technician
- architectural design technologist
- architectural technician
- architectural technologist

Exclusion(s)

- Architects (21200)
- Civil engineering technologists and technicians (22300)
- Construction estimators (22303)
- Construction inspectors (22233)

- Construction managers (70010)
- Drafting technologists and technicians (22212)
- Land survey technologists and technicians (22213)

Main duties

This group performs some or all of the following duties:

- Assist in the development of architectural designs
- Analyze building codes, by-laws, space requirements, site requirements and other technical documents and reports
- Prepare manual and CAD (computer-assisted design) drawings, specifications, cost estimates and listings of quantities of material from conceptual drawings and instructions
- Construct architectural and display models, and 3-D virtual models of architectural designs
- Prepare contract and bidding documents
- May supervise drafters, technicians and technologists on the architectural team
- May supervise construction projects and coordinate, monitor and inspect work done by others.

Employment requirements

- Completion of a two- to three-year college program in architectural technology or a related subject is usually required.
- Certification in architectural technology or in a related field through provincial associations of architectural or engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.
- Membership in the provincial regulatory body is mandatory in British Columbia.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- There is mobility to other related occupations such as drafters, civil engineering technologists and technicians, construction estimators and construction inspectors.
- Progression to supervisory positions is possible with experience.

22211 Industrial designers

Industrial designers conceptualize and produce designs for manufactured products. They are employed by manufacturing industries and private design firms or they may be self-employed.

Illustrative example(s)

- furniture designer
- industrial design consultant
- industrial designer
- industrial products designer
- product designer

Exclusion(s)

- Architectural technologists and technicians (22210)
- Civil engineering design technologist (See 22300-Civil engineering technologists and technicians)
- Electrical and electronics design technologist (See 22310-Electrical and electronics engineering technologists and technicians)
- Engineering design and drafting technologist (See 22212-Drafting technologists and technicians)
- Graphic designers and illustrators (52120)
- Interior designers and interior decorators (52121)
- Mechanical engineering equipment designer (See 22301-Mechanical engineering technologists and technicians)
- Theatre, fashion, exhibit and other creative designers (53123)

Main duties

This group performs some or all of the following duties:

- Consult with client, engineers or production specialists to establish product requirements
- Analyze the intended use of product and user preferences
- Conduct research into cost, properties of production materials and methods of production
- Develop manual and computer-assisted design (CAD) concepts, sketches or models for approval
- Prepare manufacturing drawings, specifications and guidelines for production and construct prototype of design
- Consult with engineers and production staff during manufacturing stage.

Employment requirements

- A university degree in industrial design, architecture, engineering or
A college diploma in industrial design is required.
- Creative ability, as demonstrated by a portfolio of work, is required.

Additional information

- There is mobility between positions in this unit group.
- Mobility is possible to other design occupations.

22212 Drafting technologists and technicians

Drafting technologists and technicians prepare engineering designs, drawings and related technical information, such as building information models (BIM), in multidisciplinary engineering teams or in support of engineers, architects or industrial designers, or they may work independently. They are employed by consulting and construction companies, utility, resource and manufacturing companies, all levels of government and by a wide range of other establishments.

Illustrative example(s)

- architectural draftsman
- building information modelling (BIM) technologist
- computer-aided design and drafting (CADD) technologist
- computer-assisted drafting (CAD) technician

- design and drafting technologist
- drafting office supervisor
- drafting technician
- drafting technologist
- drafter
- electrical drafter
- electromechanical drafter
- electronic drafter
- engineering design and drafting technologist
- mechanical drafter
- steel detailer - drafting
- structural drafter
- structural steel drafter-detailer

Exclusion(s)

- Architectural design technologist (See 22210-Architectural technologists and technicians)
- Civil engineering design technologist (See 22300-Civil engineering technologists and technicians)
- Electrical engineering design technologist (See 22310-Electrical and electronics engineering technologists and technicians)
- Electronics engineering design technologist (See 22310-Electrical and electronics engineering technologists and technicians)
- Industrial designers (22211)
- Mechanical engineering design technologist (See 22301-Mechanical engineering technologists and technicians)

Main duties

This group performs some or all of the following duties:

Drafting technologists

- Develop and prepare engineering designs and drawings from preliminary concepts, sketches, engineering calculations, specification sheets and other data
- Create building information models (BIM), using computer software, to provide digital representations of physical and functional aspects of buildings and other engineering projects
- Operate computer-assisted design (CAD) and drafting workstations
- Develop and prepare design sketches
- Complete documentation packages and produce drawing sets
- Check and verify design drawings to conform to specifications and design data
- Write technical reports
- Prepare contracts and tender documents
- Prepare construction specifications, costs and material estimates
- Supervise and train other technologists, technicians and drafters.

Drafting technicians

- Develop and prepare engineering drawings, plans, diagrams or layouts from sketches
- Operate computer-assisted drafting equipment or a conventional drafting station.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year college program in engineering design and drafting technology or in a related field is usually required for drafting and design technologists.
- Completion of a one- to two-year college program in drafting
or
Completion of a three- to four-year apprenticeship program
or
Four to five years of related experience plus completion of college or industry courses in drafting are usually required for drafting technicians.
- Trade certification for draftspersons is available, but voluntary in Ontario.
- Certification in engineering design and drafting technology or in a related field through provincial associations of engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.

Additional information

- Mobility is possible to civil, mechanical, electrical or other engineering design technologies through educational or work specialization.
- Senior and supervisory drafting and design technology workers require experience.

22213 Land survey technologists and technicians

Land survey technologists and technicians conduct or participate in surveys to determine the exact locations and relative positions of natural features and other structures on the earth's surface, underground and underwater. They are employed by all levels of government, architectural and engineering firms, and by private sector surveying establishments.

Illustrative example(s)

- engineering survey technologist
- geodetic survey technologist
- geomatics technologist - land surveying
- land survey technician
- legal survey technician
- topographic survey technician
- transit operator - surveying

Exclusion(s)

- Drafting technologists and technicians (22212)
- Geological technologist (See 22101-Geological and mineral technologists and technicians)
- Geophysical technologist (See 22101-Geological and mineral technologists and technicians)
- Hydrographic survey technologist (See 22101-Geological and mineral technologists and technicians)
- Land surveyors (21203)

- Land use technician (See 22300-Civil engineering technologists and technicians)
- Mine survey technologist (See 22101-Geological and mineral technologists and technicians)
- Technical occupations in geomatics and meteorology (22214)
- Urban planning technician (See 22300-Civil engineering technologists and technicians)

Main duties

This group performs some or all of the following duties:

Land survey technologists

- Assist survey engineers or professional surveyors to develop methods and procedures for conducting field surveys
- Conduct field surveys and operate survey instruments and computer equipment to measure distance, angles, elevations and contours
- Record measurements and other information obtained during field survey activities
- Determine precise geographic locations using global positioning systems (GPS) equipment
- Analyze latitude, longitude and angles and compute trigonometric and other calculations to plot features, contours and areas to a specific scale
- Prepare detailed drawings, charts and plans and survey notes and reports
- Supervise and coordinate field survey activities.

Land survey technicians

- Participate in field surveys and operate survey instruments and devices
- Keep records, measurements and other survey information in systematic order
- Assist in the calculation, analysis and computation of measurements obtained during field surveys
- Assist in the preparation of detailed drawings, charts and plans.

Land survey technologists and technicians may specialize in one of the following types of surveys: geodetic survey, topographic survey, legal (cadastral) survey or engineering survey.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year college program in geomatics or land survey technology is usually required for land survey technologists.
- Completion of a one- to two-year college program in geomatics or land survey technology is usually required for land survey technicians.
- Certification by provincial associations of technicians and technologists may be required by some employers.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- Mobility is possible between the various occupations in this unit group.
- Progression to supervisory positions is possible with experience.
- Progression to land surveyor position is possible with completion of professional surveyor examinations and certification.
- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.

22214 Technical occupations in geomatics and meteorology

Technical occupations in geomatics include aerial survey, remote sensing, geographic information systems, cartographic and photogrammetric technologists and technicians, who gather, analyze, interpret and use geospatial information for applications in natural resources, geology, environmental research and land use planning. Meteorological technologists and technicians observe weather and atmospheric conditions, record, interpret, transmit and report on meteorological data, and provide weather information to the agricultural, natural resources and transportation industries and the public. Geomatics technologists and technicians are employed by all levels of government, utilities, mapping, computer software, forestry, architectural, engineering and consulting firms and other related establishments. Meteorological technologists and technicians are employed by all levels of government, the media, natural resources, utilities and transportation companies and consulting firms.

Illustrative example(s)

- aerial survey technician
- aerological technician
- avalanche controller
- avalanche technician
- cartographer
- climate data processor
- climate service technician
- geographic information systems (GIS) technician
- ice observer
- map editor
- mapping technician
- meteorological inspector
- meteorological technician
- photogrammetric technologist
- photogrammetrist
- remote sensing (RS) technician
- softcopy photogrammetrist
- surface weather observer
- weather station operations technician

Exclusion(s)

- Airborne geophysical equipment operator (See 22101-Geological and mineral technologists and technicians)
- Drafting technologists and technicians (22212)
- Geomatics engineer (See 21300-Civil engineers)
- Land survey technologists and technicians (22213)
- Land surveyors (21203)
- Land use technician (See 22300-Civil engineering technologists and technicians)
- Meteorologists and climatologists (21103)
- Surveying engineer (See 21300-Civil engineers)
- Urban planning technician (See 22300-Civil engineering technologists and technicians)

Main duties

This group performs some or all of the following duties:

Aerial survey and remote sensing technologists and technicians

- Operate analog or digital airborne remote sensing equipment such as survey film or digital cameras, laser or radar sensors and scanners to prepare images, data and graphic reports, maps and charts from airborne or satellite data
- Develop specialized analog and computer software specific routines to customize and integrate image analysis
- Inspect quality of recorded images, verify the integrity and accuracy of data contained in remote sensing image analysis systems, and adjust equipment as required.

Geographic information systems (GIS) technologists and technicians

- Operate specialized computer hardware and software and peripheral equipment to model, manage, analyze and display geospatial data
- Develop specialized computer software routines, Internet-based GIS, database and business applications to customize geographic information
- Work with external organizations on data transfer and systems compatibility issues
- Perform data entry and editing activities and maintenance operations to systems following predetermined calibration procedures
- Integrate external software such as spreadsheets and statistical packages with GIS software
- Train and provide technical support for GIS users.

Cartographic technologists and technicians

- Plan map content, format and design and compile required data from aerial photographs, survey notes, records, reports and other maps
- Generate maps and related graphs and charts using digital mapping techniques, computer interactive graphics, computer-assisted design and drafting (CAD) software, traditional drafting methods and computer or traditional scribing tools
- Inspect final compositions to ensure completeness and accuracy.

Photogrammetric technologists and technicians

- Examine and interpret aerial photographs to prepare topographic maps, aerial-photograph mosaics and related charts
- Operate digitized stereoscopic plotting and computer graphics equipment to provide three-dimensional optical models of terrain, to trace maps, and to prepare charts and tables
- Monitor recording quality and adjust equipment as required and inspect quality of recorded images.

Meteorological technologists and technicians

- Observe, record and transmit atmospheric and weather information including air pressure, temperature, humidity, precipitation and cloud, wind and ultraviolet conditions
- Observe, chart and report on ice conditions in navigable waters and snow conditions, and participate in programs to forecast and control avalanches in mountainous terrain
- Maintain climatological databases, analyze and interpret weather data and participate in the production of weather maps, charts and reports
- Install, inspect, monitor, calibrate and maintain meteorological equipment and instruments.

Employment requirements

- Completion of secondary school is required.
- Geomatics technologists and technicians require completion of a college program in geomatics, cartography, photogrammetry, aerial survey, remote sensing, geographic information system (GIS) or geomatics.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."
- Meteorological technicians require completion of a one-year meteorological technician program provided by the Meteorological Service of Canada.
- Further specialized training is available for meteorological technicians, and may be required by some employers.

Additional information

- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.
- Mobility is possible between some occupations in this unit group.

2222 Technical occupations in computer and information systems

This minor group comprises technical occupations in computer and information systems, including computer network and web technicians; user support technicians; and information systems testing technicians. They are employed by computer hardware manufacturers; retailers; software developers; independent technical support companies; and in call centres and information technology units throughout the public and private sectors; or they may be self-employed.

22220 Computer network and web technicians

Computer network technicians establish, operate, maintain and coordinate the use of local and wide area networks (LANs and WANs), mainframe networks, hardware, software and related computer equipment. Web technicians set up and maintain internet, extranet and intranet web sites and web server hardware and software, and monitor and optimize network connectivity and performance. They are employed in information technology units throughout the public and private sectors. Computer network technicians who are supervisors are included in this group.

Illustrative example(s)

- computer network technician
- data centre operator
- Internet Web site technician
- local area network (LAN) administrator
- local area network (LAN) technician
- network administrator
- network support technician
- network system administrator
- Web technician

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Computer engineers (except software engineers and designers) (21311)

- Computer systems developers and programmers (21230)
- Information systems testing technicians (22222)
- User support technicians (22221)
- Web designers (21233)

Main duties

This group performs some or all of the following duties:

Computer and network operators

- Maintain, troubleshoot, repair and administer local area networks (LANs), wide area networks (WANs), mainframe networks, computer workstations, connections to the Internet and peripheral equipment
- Evaluate and install computer hardware, networking software, operating system software and software applications
- Operate master consoles to monitor the performance of computer systems and networks and to coordinate access and use of computer networks
- Provide problem-solving services to network users
- Perform routine network start up and close down and maintain control records
- Perform data backups and disaster recovery operations
- Conduct tests and perform security and quality controls
- Perform shell scripting or other basic scripting tasks
- May supervise other workers in this group.

Web technicians

- Install, maintain, troubleshoot and upgrade Web-server hardware and software
- Implement network traffic and security monitoring software, and optimize server performance
- Control and monitor e-mail use, Web navigation, and installed software
- Respond to requests for help and information from Web site visitors and Web site designers.

Employment requirements

- Completion of a college or other program in computer science, network administration, Web technology or a related field is usually required.
- Certification or training provided by software vendors may be required by some employers.
- Registration with a regulatory body is required in Saskatchewan.

Additional information

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

22221 User support technicians

User support technicians provide first-line technical support to computer users experiencing difficulties with computer hardware and with computer applications and communications software. They are employed by computer hardware manufacturers and retailers, software developers, in call centres and in information technology units throughout the public and private sectors. They are also employed by independent technical support companies or they may be self-employed.

Illustrative example(s)

- call centre agent - technical support
- client support representative - systems
- computer help desk representative - systems
- computer help desk supervisor
- hardware installation technician
- hardware technical support analyst
- help desk technician
- software installation technician
- software technical support analyst
- systems support representative
- technical support analyst
- technical support supervisor
- user support technician

Exclusion(s)

- Computer network and web technicians (22220)
- Computer systems developers and programmers (21230)
- Cybersecurity specialists (21220)
- Information systems testing technicians (22222)

Main duties

This group performs some or all of the following duties:

- Communicate electronically and in person with computer users experiencing difficulties to determine and document problems experienced
- Consult user guides, technical manuals and other documents to research and implement solutions
- Reproduce, diagnose and resolve technical problems encountered by users
- Provide advice and training to users in response to identified difficulties
- Provide business systems, network and Internet support to users in response to identified difficulties
- Collect, organize and maintain a problems and solutions log for use by other technical support analysts
- Participate in the redesign of applications and other software
- May supervise other technical support workers in this group.

Employment requirements

- Completion of a college program in computer science, computer programming or network administration is usually required.
- College or other courses in computer programming or network administration are usually required.
- Certification or training provided by software vendors may be required by some employers.

Additional information

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

22222 Information systems testing technicians

Information systems testing technicians execute test plans to evaluate the performance of software applications and information and telecommunications systems. They are employed in information technology units throughout the private and public sectors.

Illustrative example(s)

- application tester
- application testing technician
- software test coordinator
- software tester
- software testing technician
- systems tester
- systems testing technician
- user acceptance tester

Exclusion(s)

- Business systems specialists (21221)
- Computer engineers (except software engineers and designers) (21311)
- Computer network and web technicians (22220)
- Computer systems developers and programmers (21230)
- Cybersecurity specialists (21220)
- Information systems specialists (21222)
- Software developers and programmers (21232)
- Software engineers and designers (21231)
- User support technicians (22221)
- Web designers (21233)
- Web developers and programmers (21234)

Main duties

This group performs some or all of the following duties:

- Develop and document software testing plans
- Install software and hardware and configure operating system software in preparation for testing
- Execute, analyze and document results of software application, video game and information and telecommunication systems tests
- Develop and implement software and information system testing policies, procedures and scripts
- Identify, report, track and propose solutions to product defects.

Employment requirements

- Completion of a college program in computer science, computer programming or network administration is usually required.
- College or other courses in computer programming or network administration are usually required.
- Certification or training provided by software vendors may be required by some employers.

Additional information

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

2223 Technical inspectors and regulatory officers

This minor group comprises technical inspectors and regulatory officers, including non-destructive testers and inspectors; engineering inspectors and regulatory officers; occupational health and safety specialists; and construction inspectors. They are employed by quality control, maintenance and safety departments of manufacturing, processing, transportation, energy, and other companies; civil engineering consulting, architectural and construction companies; throughout the public and private sectors; and by private industrial inspection establishments; or they may be self-employed.

22230 Non-destructive testers and inspectors

Non-destructive testers and inspectors operate radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current and similar testing equipment to detect discontinuities in objects of various compositions and materials. They are employed by quality control, maintenance and safety departments of manufacturing, processing, transportation, energy and other companies and by private industrial inspection establishments.

Illustrative example(s)

- acoustic emission technician
- aircraft non-destructive inspection technician
- eddy current technician
- industrial radiographer
- infrared thermographer
- liquid penetrant testing technician
- non-destructive inspector
- non-destructive testing maintenance (NDT) technician
- pressure vessel tester
- radiographic technician - non-destructive testing
- ultrasonic testing technician
- visual inspection technician - welding
- weld tester

Exclusion(s)

- Engineering inspectors and regulatory officers (22231)
- Medical technologists and technicians (3212)

Main duties

This group performs some or all of the following duties:

- Transport, set up and calibrate non-destructive testing equipment
- Conduct tests to ensure quality or detect discontinuities (defects) using ultrasonic, radiographic, liquid penetrant, magnetic particle, eddy current and other non-destructive testing methods
- Establish techniques for proper examination of objects under inspection, ensuring strict adherence to safety regulations

- Interpret radiographs, cathode ray tube (CRT) or digital readouts, conductivity meters and visual indicators
- Apply testing criteria in accordance with applicable specifications or standards and evaluate results
- Organize and report test results
- May perform specialized inspections using acoustic emission, vibration analysis, infrared thermography and laser shearography testing methods
- May instruct and supervise trainees.

Employment requirements

- Completion of secondary school is required.
- Completion of two years of an approved post-secondary science or engineering program may be required.
- Additional classroom and on-the-job training is required for certification in non-destructive testing.
- Non-destructive testing certification by Natural Resources Canada is available in three levels and is usually required by employers.
- Industrial radiographers using a radioactive isotope must pass an examination to be recognized as a certified exposure device operator by the Canadian Nuclear Safety Commission.
- Welding inspector certification by the Canadian Welding Bureau is available in three levels and may be required by employers.
- Boiler and pressure vessel, process pipeline and above-ground storage tank inspector certification is available from the American Petroleum Institute.

22231 Engineering inspectors and regulatory officers

Engineering inspectors and regulatory officers inspect transportation vehicles such as aircraft, watercraft, automobiles and trucks and weighing and measuring devices such as scales and meters as well as industrial instruments, processes and equipment for conformity to government and industry standards and regulations. They are employed by government agencies and in the private sector.

Illustrative example(s)

- air carrier maintenance inspector
- air transport inspector
- airworthiness inspector
- electricity and gas meter inspector
- elevator inspector
- engineering inspector
- engineering regulatory officer
- insurance loss prevention inspector
- marine damage surveyor
- motor vehicle defects investigator
- railway accident investigation officer
- weights and measures inspector

Exclusion(s)

- Construction inspectors (22233)
- Non-destructive testers and inspectors (22230)
- Occupational health and safety specialists (22232)

- Regulatory affairs officer (See 11201-Professional occupations in business management consulting)
- Regulatory compliance officer (See 11201-Professional occupations in business management consulting)

Main duties

This group performs some or all of the following duties:

Motor vehicles defects investigators

- Conduct motor vehicle and motor vehicle component defect investigations, examinations, tests and defect-related accident investigations
- Provide expert advice and testimony on specific motor vehicle performance problems or defects
- Recommend improvements in vehicle inspection and licensing procedures and vehicle safety standards.

Railway accident investigation officers

- Collect and analyze data from train derailments, collisions, and other accidents to determine the causes
- Inspect and evaluate railway property, structures, rolling stock, signals, track structure and train handling characteristics to ensure compliance to operating standards.

Airworthiness inspectors

- Conduct initial and regular inspections of establishments and individuals holding or applying for air carrier operating certificates and establishments engaged in aircraft maintenance, repair or modification
- Inspect aircraft, advise of any deficiencies and detain aircraft suspected of being unairworthy or unsafe.

Inspectors, weights and measures

- Conduct inspections and tests of a variety of mechanical and electronic weighing and measuring devices and systems
- Prepare draft investigative reports of findings
- Recommend corrective or enforcement action.

Oil and gas drilling rig inspectors

- Conduct onshore and offshore inspections of drilling and well servicing equipment and processes to ensure compliance with regulations and policies and to recommend improvements and corrective action.

Employment requirements

- University degree or college diploma in an appropriate engineering field
or
Trade qualifications and extensive related work experience are required.
- Appropriate professional engineering or engineering technology certification and licences may be required.

22232 Occupational health and safety specialists

Occupational health and safety specialists review, evaluate and monitor health and safety hazards and develop strategies to prevent, control and eliminate accidents and occupational injuries. They inspect the workplace environments, equipment and practices to ensure compliance with organization and government environment, health and safety standards and regulations. They are employed throughout the public and private sectors.

Illustrative example(s)

- health and safety officer
- occupational health and safety officer

- occupational health supervisor
- occupational safety consultant
- occupational safety coordinator

Inclusion(s)

- safety supervisor - occupational health and safety

Exclusion(s)

- By-law enforcement and other regulatory officers (43202)
- Construction inspectors (22233)
- Engineering inspectors and regulatory officers (22231)
- Ergonomist (See 41400-Natural and applied science policy researchers, consultants and program officers)
- Occupational hygienist (See 41400-Natural and applied science policy researchers, consultants and program officers)
- Public and environmental health and safety professionals (21120)

Main duties

This group performs some or all of the following duties:

- Lead and participate in workplace audits and investigations of safety concerns, incidents and accidents
- Lead and participate in workplace inspections to ensure that equipment, materials and production processes do not present a safety or health hazard to employees
- Develop and implement health and safety programs, including standard operating procedures, policies and training to mitigate risk, optimize worker's health and safety and foster a positive occupational health and safety culture
- Initiate enforcement procedures on workplaces contravening organization and government health and safety standards and regulations
- Provide training to employers, employees and the general public on issues of workplace safety
- Communicate, engage and influence decision-makers and workers to ensure compliance with health and safety legislation and regulations.

Employment requirements

- A bachelor's degree or college diploma in occupational health and safety is usually required.
- Occupational health and safety officers may require certification with the Board of Canadian Registered Safety Professionals (BCRSP).

22233 Construction inspectors

Construction inspectors inspect the construction and maintenance of new and existing buildings, bridges, highways and industrial construction to ensure that specifications and building codes are observed and monitor work site safety. They are employed by federal, provincial and municipal governments, construction companies, architectural and civil engineering consulting firms or they may be self-employed.

Illustrative example(s)

- bridge inspector
- building construction inspector
- construction inspector

- highway construction inspector
- home inspector
- housing construction inspector
- mine construction inspector
- plumbing inspector
- pre-stressed concrete inspector
- safety officer - construction

Exclusion(s)

- By-law enforcement and other regulatory officers (43202)
- Construction estimators (22303)
- Construction managers (70010)
- Engineering inspectors and regulatory officers (22231)
- Occupational health and safety specialists (22232)

Main duties

This group performs some or all of the following duties:

- Examine plans, drawings, and site layouts for new buildings, building renovations and other proposed structures
- Inspect construction of buildings, bridges, dams, highways and other types of building and engineering construction for conformance to drawings, specifications, building codes or other applicable ordinances
- Inspect and test electrical or plumbing installations in buildings to ensure compliance with municipal, provincial and federal regulations
- Inspect steel framework, concrete forms, reinforcing steel mesh and rods, concrete or pre-stressed concrete to ensure quality standards and to verify conformance to specifications and building codes
- Inspect construction of sewer systems and pipelines
- Inspect construction sites to ensure that safe working conditions are maintained
- Inspect existing buildings to identify and report on structural defects, fire hazards and other threats to safety
- Inspect new or resale homes on behalf of clients and assess and provide reports on the physical condition of property
- Assess the energy performance and potential energy savings of buildings
- Plan, design, develop, implement, and evaluate workplace activities to ensure that workers comply with company policies and government safety regulations.

Employment requirements

- Completion of secondary school is required.
- A college diploma in construction, civil engineering or architectural technology plus several years of related work experience or several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are usually required.
- Provincial certification in a skilled trade or as an engineering technologist is usually required.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

- Certification as a Construction Safety Officer (CSO) by provincially chartered associations may be required in provinces having such associations.
- Home inspectors require a licence to practice in Ontario, Alberta and British Columbia.
- Energy advisors must affiliate with a licenced service organization, complete required training and pass the EnerGuide foundation level exam and Energy advisor exam to become registered with Natural Resources Canada as an energy advisor.

Additional information

- Progression to construction management positions is possible with experience.

223 Technical occupations related to engineering

This sub-major group comprises technical occupations related to engineering, including technical occupations in civil, mechanical and industrial engineering, as well as technical occupations in electronics and electrical engineering.

2230 Technical occupations in civil, mechanical and industrial engineering

This minor group comprises technical occupations in civil, mechanical and industrial engineering; including civil engineering technologists and technicians; mechanical engineering technologists and technicians; industrial engineering and manufacturing technologists and technicians; and construction estimators. They are employed by public works, transportation and other government departments; consulting engineering, insurance, manufacturing, processing and residential, commercial and industrial construction companies; major electrical, mechanical and trade contractors; and in many other industries; or they may be self-employed.

22300 Civil engineering technologists and technicians

Civil engineering technologists and technicians provide technical support and services to scientists, engineers and other professionals, or may work independently in fields such as structural engineering, municipal engineering, construction design and supervision, highways and transportation engineering, water resources engineering, geotechnical engineering and environmental protection. They are employed by consulting engineering and construction companies, public works, transportation and other government departments and in many other industries.

Illustrative example(s)

- bridge design technician
- building materials technician
- civil engineering technician
- civil engineering technologist
- construction specifications writer
- construction technologist
- foundation technologist
- highway technician
- municipal engineering assistant
- soil technologist - civil engineering
- structural design technologist
- structural investigator

Exclusion(s)

- Architectural technologists and technicians (22210)
- Construction estimators (22303)
- Construction inspectors (22233)
- Construction managers (70010)
- Drafting technologists and technicians (22212)
- Land survey technologists and technicians (22213)
- Urban and land use planners (21202)

Main duties

This group performs some or all of the following duties:

Civil engineering technologists

- Develop conventional and computer-assisted design (CAD) engineering designs and drawings from preliminary concepts and sketches
- Prepare construction specifications, cost and material estimates, project schedules and reports
- Supervise or conduct field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Conduct or supervise inspection and testing of construction materials
- May supervise, monitor and inspect construction projects.

Civil engineering technicians

- Assist in developing engineering specifications and drawings
- Participate in field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Perform other technical functions in support of civil engineering activities.

Employment requirements

- Completion of a two- or three-year college program in civil engineering technology or a closely related discipline is usually required for civil engineering technologists.
- Completion of a one- or two-year college program in civil engineering technology is usually required for civil engineering technicians.
- Certification in civil engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- There is mobility to related occupations, such as drafting technologists and technicians and construction inspectors and estimators.
- Progression to construction supervisors or construction managers is possible with experience.

22301 Mechanical engineering technologists and technicians

Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, geothermal power plants, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments.

Illustrative example(s)

- aeronautical technologist
- heating designer
- heating, ventilation and air conditioning (HVAC) technologist
- machine designer
- marine engineering technologist
- mechanical engineering technician
- mechanical engineering technologist
- mechanical technologist
- mould designer
- thermal station technician
- tool and die designer
- tool designer

Exclusion(s)

- Drafting technologists and technicians (22212)
- Industrial designers (22211)
- Managers in manufacturing and utilities (9001)
- Technical sales specialists - wholesale trade (62100)

Main duties

This group performs some or all of the following duties:

Mechanical engineering technologists

- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components, power transmission systems, process piping, heating, ventilating and air conditioning systems
- Prepare cost and material estimates, project schedules and reports
- Conduct tests and analyses of machines, components and materials to determine their performance, strength, response to stress and other characteristics
- Design moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Inspect mechanical installations and construction
- Prepare contract and tender documents
- Supervise, monitor and inspect mechanical installations and construction projects
- Prepare standards and schedules and supervise mechanical maintenance programs or operations of mechanical plants.

Mechanical engineering technicians

- Assist in preparing conventional and computer-assisted design (CAD) engineering designs, drawings and specifications
- Carry out a limited range of mechanical tests and analyses of machines, components and materials
- Assist in the design of moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Assist in inspection of mechanical installations and construction projects
- Participate in the installation, repair and maintenance of machinery and equipment.

Employment requirements

- Completion of a two- or three-year college program in mechanical engineering technology is usually required for mechanical engineering technologists.
- Completion of a one- or two-year college program in mechanical engineering technology is usually required for mechanical engineering technicians.
- Certification in mechanical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body is required to use the title “Professional Technologist.”

Additional information

- There is mobility to other related occupations such as technical sales or drafting technologists and technicians.
- Progression to supervisory occupations such as mechanical construction supervisor, manufacturing supervisor or operations maintenance manager is possible with experience.

22302 Industrial engineering and manufacturing technologists and technicians

Industrial engineering and manufacturing technologists and technicians may work independently or provide technical support and services in the development of production methods, facilities and systems, and the planning, estimating, measuring and scheduling of work. They are employed by manufacturing and insurance companies, government departments, and establishments in other industries.

Illustrative example(s)

- computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer
- industrial engineering technician
- industrial engineering technologist
- loss prevention technologist - manufacturing
- manufacturing technician
- manufacturing technologist
- planning technician
- plastics manufacturing technician
- pulp and paper manufacturing technologist
- quality assurance technologist
- scheduling technician - manufacturing

- textile technologist
- time study analyst

Exclusion(s)

- Chemical processing quality control technician (See 22100-Chemical technologists and technicians)
- Chemical processing quality control technologist (See 22100-Chemical technologists and technicians)
- Food processing quality control technician (See 22100-Chemical technologists and technicians)
- Food processing quality control technologist (See 22100-Chemical technologists and technicians)
- Machining, metal forming, shaping and erecting trades (7210)
- Technical sales specialists - wholesale trade (62100)
- Textile colour technologist (See 22100-Chemical technologists and technicians)
- Textile dyeing technician (See 22100-Chemical technologists and technicians)

Main duties

This group performs some or all of the following duties:

Industrial engineering and manufacturing technologists

- Develop and conduct production, inventory and quality assurance programs in manufacturing or in other industries
- Design plant layouts and production facilities
- Develop and carry out work study and related programs
- Develop and carry out industrial health, safety and fire prevention plans and programs and conduct safety training programs
- Develop applications using CAD/CAM (computer-assisted drafting, computer-assisted manufacturing) for the control of robots, computer numerical control (CNC) machines and other manufacturing processes and operations.

Industrial engineering and manufacturing technicians

- Assist in the design of plant layouts
- Conduct work measurement or other studies
- Collect and compile operational or experimental data and assist in the development of estimates, schedules, specifications and reports
- Collect and analyze data and samples in support of quality assurance and industrial health and safety programs
- Develop manufacturing and processing procedures and variables, set machine or equipment controls, oversee production and inspect processes.

Technologists and technicians in this unit group may specialize in the development of production processes, quality assurance programs, plans and schedules in a particular industrial area such as metal fabrication, plastics, pulp and paper, or textile manufacturing.

Employment requirements

- Completion of a two- or three-year college program or equivalent in industrial engineering technology, pulp and paper technology, plastics technology, textile technology, manufacturing technology or a related discipline is usually required for industrial engineering or manufacturing technologists.
- Completion of a one- or two-year college program in industrial engineering technology or in a related discipline is usually required for industrial engineering or manufacturing technicians.

- Certification in industrial engineering or manufacturing technology or in a related field is available through provincial or territorial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- A college diploma in manufacturing technology and/or trade certification and experience in machining and tooling or metalworking is required for CAD-CAM/CNC programmers.
- In Quebec, membership in the regulatory body is required to use the title “Professional Technologist.”

Additional information

- There is mobility to related fields such as technical sales.
- Progression to managerial positions is possible with experience.

22303 Construction estimators

Construction estimators analyze costs of and prepare estimates on civil engineering, architectural, structural, electrical and mechanical construction projects. They are employed by residential, commercial and industrial construction companies and major electrical, mechanical and trade contractors, or they may be self-employed.

Illustrative example(s)

- chief estimator - construction
- construction estimator
- cost estimator - construction
- principal estimator - construction
- professional quantity surveyor
- quantity surveyor - construction

Exclusion(s)

- Architectural technologists and technicians (22210)
- Civil engineering technologists and technicians (22300)
- Civil engineers (21300)
- Construction managers (70010)

Main duties

This group performs some or all of the following duties:

- Prepare estimates of probable costs of materials, labour and equipment for construction projects based on contract bids, quotations, schematic drawings and specifications
- Advise on tendering procedures, examine and analyze tenders, recommend tender awards and conduct negotiations
- Establish and maintain tendering process and set up cost monitoring and reporting systems and procedures
- Prepare cost and expenditure statements and forecasts at regular intervals for the duration of a project
- Prepare and maintain a directory of suppliers, contractors and subcontractors
- Liaise, consult and communicate with engineers, architects, owners, contractors and subcontractors, and prepare economic feasibility studies on changes and adjustments to cost estimates

- Manage and coordinate construction projects and prepare construction progress schedules.

Estimators may specialize in estimating costs for structural, electrical or mechanical construction projects.

Employment requirements

- Completion of secondary school is required.
- Completion of a three-year college program in civil or construction engineering technology or
Several years of experience as a qualified tradesperson in a construction trade such as plumbing, carpentry or electrical, are required.
- Certification by the Canadian Institute of Quantity Surveyors is usually required.

Additional information

- Progression to more senior positions in this unit group, such as senior estimator or to construction management positions is possible with experience.

2231 Technical occupations in electronics and electrical engineering

This minor group comprises technical occupations in electronics and electrical engineering, including electrical and electronics engineering technologists and technicians; electronic service technicians (household and business equipment); industrial instrument technicians and mechanics; and aircraft instrument, electrical and avionics mechanics, technicians and inspectors. They are employed by governments; electrical utilities; communications, consulting, pulp and paper processing, nuclear and hydro power generating, mining, petrochemical and natural gas, industrial instrument and other manufacturing companies; manufacturers of electrical and electronic equipment; and in a wide range of manufacturing, processing and transportation industries; by industrial instrument servicing, electronic service, and retail establishments; wholesale distributors; aircraft manufacturing, maintenance, repair and overhaul establishments; and by airlines and other aircraft operators.

22310 Electrical and electronics engineering technologists and technicians

Electrical and electronics engineering technologists and technicians may work independently or provide technical support and services in the design, development, testing, production and operation of electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and in governments and a wide range of manufacturing, processing and transportation industries.

Illustrative example(s)

- communications technologist
- electrical engineering technician
- electrical engineering technologist
- electricity distribution network technologist
- electronics design technologist
- electronics engineering technician
- electronics engineering technologist
- electronics manufacturing technician
- electronics manufacturing technologist
- lighting technologist
- metering technologist

- microwave maintenance technician
- production support technician - electronics manufacturing

Exclusion(s)

- Aircraft instrument, electrical and avionics mechanics, technicians and inspectors (22313)
- Electronic service technicians (household and business equipment) (22311)
- Engineering managers (20010)
- Industrial instrument technicians and mechanics (22312)
- Manufacturing managers (90010)
- Technical sales specialists - wholesale trade (62100)

Main duties

This group performs some or all of the following duties:

Electrical and electronics engineering technologists

- Design, develop and test power equipment and systems, industrial process control systems, telecommunication, broadcast, recording and audiovisual systems, microelectronic systems and circuits, computers, computer systems and networks, and computer software
- Supervise the building and testing of prototypes according to general instructions and established standards
- Conduct or supervise the installation, commissioning, and operation of electrical and electronic equipment and systems other than aircraft electronics or instruments
- Carry out applied research in fields of electrical and electronic engineering and physics under the direction of scientists or engineers
- Set up and operate specialized and standard test equipment to diagnose, test and analyze the performance of electrical and electronic components, assemblies and systems
- Write specifications, schedules and technical reports and control schedules and budgets.

Electrical and electronics engineering technicians

- Assist in the design, development and testing of electrical and electronic components, equipment, and systems
- Assist in inspection, testing, adjusting and evaluation of incoming electrical, electro-mechanical and electronic components and assemblies to ensure conformance with product specifications and tolerances
- Conduct life tests (burn-ins) on assemblies and record and analyze results
- Assist in building and testing prototypes to specifications
- Carry out a limited range of technical functions in support of research in electrical and electronic engineering and physics
- Install, operate and maintain electrical and electronic equipment and systems
- Calibrate electrical or electronic equipment and instruments according to technical manuals and written instructions
- Collect and compile operational or experimental data and assist in the preparation of estimates, schedules, budgets, specifications and reports.

Employment requirements

- Completion of a two- or three-year college program in electrical or electronics engineering technology, computer engineering technology, telecommunications technology or an equivalent is usually required for electrical or electronics engineering technologists.
- Completion of a one- or two-year college program in electrical or electronics engineering technology is usually required for electrical or electronics engineering technicians.
- Certification in electrical or electronics engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- There is mobility to other related occupations such as technical sales, electronics service technicians, instrument technicians and avionics technicians.
- Progression to managerial positions in engineering, production or operations is possible with experience.

22311 Electronic service technicians (household and business equipment)

Electronic service technicians service and repair household and business electronic equipment such as audio and video systems, computers and peripherals, office equipment and other consumer electronic equipment and assemblies. They are employed by electronic service and retail establishments, by wholesale distributors and within service departments of electronic manufacturing companies. Apprentices are also included in this unit group.

Illustrative example(s)

- alarm system technician
- audio-video service technician
- computer service technician
- electronic products field service technician
- electronic service technician apprentice
- electronic service technician supervisor
- office equipment service technician
- photocopy machine technician
- radio and television service technician
- satellite antenna servicer

Exclusion(s)

- Electrical and electronics engineering technologists and technicians (22310)
- Telecommunications equipment installation and cable television service technicians (72205)

Main duties

This group performs some or all of the following duties:

- Install, maintain and repair household and business electronic equipment, such as televisions, radios, DVD and blueray players, projectors, stereo equipment, photocopiers, computers and peripherals
- Inspect and test electronic equipment, components and assemblies using multimeters, circuit testers, oscilloscopes, logic probes and other electronic test instruments, tools and equipment
- Diagnose and locate circuit, component and equipment faults
- Adjust, align, replace or repair electronic equipment, assemblies and components following equipment manuals and schematics, and using soldering tools and other hand and power tools
- Complete work orders, test and maintenance reports
- May supervise other electronic equipment service technicians.

Employment requirements

- Completion of a two- to three-year college program in electronics
or
Completion of a four-year apprenticeship program in electronic servicing and repair
or
Completion of high school or college courses in electronics and on-the-job training is required.
- Trade certification for electronics technicians (consumer products) is available, but voluntary, in Ontario, British Columbia and the Yukon.

Additional information

- Progression to supervisory positions is possible with experience.

22312 Industrial instrument technicians and mechanics

Industrial instrument technicians and mechanics repair, maintain, calibrate, adjust, and install industrial measuring and controlling instrumentation. They are employed by pulp and paper processing companies, nuclear and hydro power generating companies, mining, petrochemical and natural gas companies, industrial instrument and other manufacturing companies, and by industrial instrument servicing establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice industrial instrument mechanic
- industrial instrument mechanic
- industrial instrument technician
- industrial instrumentation technician
- process control equipment mechanic

Exclusion(s)

- Aircraft instrument technician (See 22313-Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Electrical and electronics engineering technologists and technicians (22310)
- Industrial mechanic (See 72400-Construction millwrights and industrial mechanics)
- Measurement technician - oil and gas inspection (See 22231-Engineering inspectors and regulatory officers)

Main duties

This group performs some or all of the following duties:

- Consult manufacturer's manuals, circuit diagrams and blueprints to determine tests and maintenance procedures for instruments used for measuring and controlling flow, level, pressure, temperature, chemical composition and other variables in manufacturing and processing
- Inspect and test operation of instruments and systems to diagnose faults using pneumatic, electrical and electronic testing devices and precision measuring instruments
- Repair and adjust system components, such as sensors, transmitters and programmable logic controllers, or remove and replace defective parts
- Calibrate components and instruments according to manufacturers' specifications
- Perform scheduled preventive maintenance work and complete test and maintenance reports
- Install control and measurement instruments on existing and new plant equipment and processes
- Consult with and advise process operators.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- or five-year apprenticeship program in industrial instrument repair or
Completion of a two-year college program in industrial instrumentation technology and several years of work experience are usually required for trade certification.
- Instrumentation and control technician trade certification is available, but voluntary, in all provinces and territories, except in Quebec.
- Red Seal endorsement is also available to qualified instrumentation and control technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

22313 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors

Aircraft instrument, electrical and avionics mechanics, technicians and inspectors install, adjust, repair and overhaul aircraft instrument, electrical or avionics systems on aircraft. This unit group also includes avionics inspectors who inspect instrument, electrical and avionics systems following assembly, modification, repair or overhaul. They are employed by aircraft manufacturing, maintenance, repair and overhaul establishments and by airlines and other aircraft operators. Apprentices are also included in this unit group.

Illustrative example(s)

- aircraft electrical technician
- aircraft electrician
- aircraft instrument inspector
- aircraft instrument mechanic
- aircraft instrument technician
- aircraft maintenance engineer (AME) - avionics
- avionics inspector
- avionics maintenance technician

- avionics technician
- instrument overhaul and repair mechanic - avionics

Exclusion(s)

- Aircraft assemblers and aircraft assembly inspectors (93200)
- Aircraft mechanics and aircraft inspectors (72404)
- Airworthiness inspector (See 22231-Engineering inspectors and regulatory officers)
- Electrical mechanics (72422)
- Industrial instrument technicians and mechanics (22312)

Main duties

This group performs some or all of the following duties:

Aircraft instrument mechanics and technicians

- Repair and overhaul, install, calibrate and test aircraft instruments.

Aircraft electrical mechanics and technicians

- Repair and overhaul, modify, install and test aircraft electrical systems and equipment.

Avionics mechanics and technicians

- Troubleshoot, repair and overhaul, test, modify, install and inspect aircraft electronic systems and components including communications, navigation, and autoflight equipment.

Avionics inspectors

- Inspect and test aircraft instrument, electrical and avionics systems and ensure that the installation, maintenance, repair and overhaul of these systems meet Transport Canada and company standards of performance and safety.

Aircraft mechanics and technicians who work in repair and overhaul shops service and test electrical, electronic and instrument components.

Avionics mechanics and technicians who work in maintenance hangars troubleshoot, repair, install and inspect aircraft systems and components.

Employment requirements

- Aircraft instrument and avionics mechanics and technicians require completion of a two- to three-year college program in avionics or electronics.
- Aircraft electrical mechanics and technicians require completion of a college program as an electrical or electronic technician.
- Four years of on-the-job or company apprenticeship training is required for all mechanics and technicians in this unit group.
- Avionics inspectors require completion of a two- to three-year college program in avionics or electronics and
Three to five years of experience as an avionics mechanic or technician.
- Avionics inspectors, mechanics and technicians who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence (category E - avionics) issued by Transport Canada.

- Industry certification is available from the Canadian Council for Aviation & Aerospace (CCAA) for some occupations in this unit group.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title “Professional Technologist.”

Additional information

- Avionics inspectors, maintenance technicians and mechanics may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and avionics systems.
- An AME licence can be obtained by fulfilling the education and training requirements as stated above and passing Transport Canada AME examinations.
- Progression to supervisory positions within specific areas of expertise is possible with experience.

3 Health occupations

This broad category comprises specialized middle management occupations in health care, as well as occupations concerned with providing health care services directly to patients (professional and technical occupations in health) and occupations that provide support to health services.

30 Specialized middle management occupations in health care

This major group comprises specialized middle management occupations in health care. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

300 Specialized middle management occupations in health care

This sub-major group comprises specialized middle management occupations in health care.

3001 Managers in health care

This minor group comprises specialized middle management occupations in health care. They are employed in hospitals, medical clinics, nursing homes and other health care organizations.

30010 Managers in health care

Managers in health care plan, organize, direct, control and evaluate the delivery of health care services, such as diagnosis and treatment, nursing and therapy, within institutions, and in other settings, that provide health care services. They are employed in hospitals, medical clinics, nursing homes and other health care organizations.

Illustrative example(s)

- chief of anesthesia
- chief of emergency medicine
- chief of medical staff
- director of clinical medicine
- director of dietetics
- director of laboratory medicine
- director of nursing - medical services
- director of occupational therapy
- director of physiotherapy
- director of surgery
- home care services director - medical services
- medical clinic director
- mental health residential care program manager
- rehabilitation services director

Exclusion(s)

- Government managers - health and social policy development and program administration (40010)
- Senior managers - health, education, social and community services and membership organizations (00013)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of health care services within a department of a health care institution, or in other settings where health care services are provided
- Consult with boards of directors and senior managers to maintain and establish standards for the provision of health care services
- Develop evaluation systems to monitor the quality of health care given to patients
- Monitor the use of diagnostic services, in-patient beds and facilities to ensure effective use of resources
- Develop and implement plans for new programs, special projects, new material and equipment acquisitions and future staffing levels in their department or establishment
- Plan and control departmental or establishment budget
- Represent the department or establishment at meetings with government officials, the public, the media and other organizations
- Supervise health care supervisors and professionals
- Recruit health care staff of the department or establishment.

Managers in health care specialize in administering the provision of specific health care services such as dietetics, clinical medicine, laboratory medicine, nursing, physiotherapy or surgery.

Employment requirements

- Administrators of departments such as surgery, clinical medicine or laboratory medicine are usually required to have the education and training of a specialist physician.
- Administrators of other departments, such as nursing, dietetics or physiotherapy, are usually required to have the education and training of the medical professionals in that department.
- Several years of experience in the relevant profession, including supervisory experience, are usually required.
- Certification in the relevant profession is required.

Additional information

- There is little or no mobility between departments in different medical specializations.
- Progression to senior management positions in health care services is possible with experience.

31 Professional occupations in health

This major group comprises professional occupations in health, including health treating and consultation services professionals; therapy and assessment professionals; and nursing and allied health professionals. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 1. Occupations classified in TEER 1, as those in this group with a 1 as the second digit of their code, typically require a university degree (bachelor's, master's or doctorate) or the accumulation several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 2, when applicable (which includes occupations with a 2 as a second digit in their code).

311 Health treating and consultation services professionals

This sub-major group comprises health treating and consultation services professionals, including physicians and veterinarians; dentists, optometrists and audiologists; and pharmacists and dietitians.

3110 Physicians and veterinarians

This minor group comprises physicians and veterinarians, including specialists in clinical and laboratory medicine; specialists in surgery; and general practitioners and family physicians. They work in private practice, hospitals, clinics, and public health facilities; animal clinics, and farms; laboratories, universities, and government.

31100 Specialists in clinical and laboratory medicine

Specialists in clinical and laboratory medicine diagnose and treat diseases and physiological or psychiatric disorders and act as consultants to other physicians. Specialists in laboratory medicine study the nature, cause and development of diseases in humans. Specialists in clinical medicine usually work in private practice or in a hospital while those in laboratory medicine usually work in hospitals. Residents in training to become specialists in clinical and laboratory medicine are included in this unit group.

Illustrative example(s)

- anatomical pathologist
- anesthetist
- cardiologist
- dermatologist
- diagnostic radiologist
- emergency physician
- endocrinologist
- gastroenterologist
- general pathologist
- geriatrician
- hematologist
- hematopathologist
- medical biochemist - physician
- medical microbiologist
- nephrologist
- neurologist
- neuropathologist
- oncologist
- pediatrician
- physiatrist
- pneumologist
- psychiatrist
- radiation oncologist
- respirologist
- rheumatologist

Exclusion(s)

- Chiropractors (31201)
- Dental surgeon (See 31110-Dentists)
- General practitioners and family physicians (31102)

- Immunologist (See 21110-Biologists and related scientists)
- Managers in health care (30010)
- Other professional occupations in health diagnosing and treating (31209)
- Physicians assistants, midwives and allied health professionals (See 31303-Physician assistants, midwives and allied health professionals)
- Specialists in surgery (31101)

Main duties

This group performs some or all of the following duties:

Anesthesiologists

- Administer anesthetics prior to, during, or after surgery or other medical procedures.

Internists, general

- Diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems. Provide care mainly for adults who have a wide range of problems associated with the internal organs.

Pediatricians, general

- Diagnose, treat, and help prevent children's diseases and injuries.

Psychiatrists

- Diagnose, treat, and help prevent disorders of the mind.

Allergists and immunologists

- Diagnose, treat, and help prevent allergic diseases and disease processes affecting the immune system.
- Hospitalists
- Provide inpatient care predominantly in settings such as medical wards, intensive care units, rehabilitation centers, or emergency rooms. Manage and coordinate patient care throughout treatment.

Neurologists

- Diagnose, treat, and help prevent diseases and disorders of the nervous system involving the brain and spinal cord and other nerve and muscular conditions.

Nuclear medicine physicians

- Diagnose and treat diseases using radioactive materials. May monitor radionuclide preparation, administration, and disposition.

Dermatologists

- Diagnose, treat, and help prevent diseases or other conditions of the skin.

Physical medicine and rehabilitation physicians

- Diagnose and treat disorders requiring physiotherapy to provide physical, mental, and occupational rehabilitation.

Preventive medicine physicians

- Apply knowledge of general preventive medicine and public health issues to promote health care to groups or individuals, and aid in the prevention or reduction of risk of disease, injury, disability, or death. May diagnose and treat patients in the context of clinical health promotion and disease prevention.

Radiologists

- Examine and diagnose disorders and diseases using x-rays and radioactive materials. May treat patients.

Other specialists in clinical medicine

- Diagnose and treat diseases and physiological or psychiatric disorders. Order laboratory tests, X-rays and other diagnostic procedures. Prescribe medication and treatment and refer patients for surgery. Act as consultants to other physicians. May conduct medical research.

Specialists in laboratory medicine, including pathologists

- Diagnose presence and stage of diseases using laboratory techniques and patient specimens. Study the nature, cause and development of diseases in humans and the structural and functional changes caused by diseases. Act as consultants to other physicians. May perform autopsies.

Employment requirements

Specialists in clinical and laboratory medicine

- A bachelor's degree or in Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Graduation from an approved medical school and specific specialty training are required.
- Completion of the certifying examinations of the Royal College of Physicians and Surgeons of Canada and licensing by the provincial or territorial licensing authority are required.

Specialists in clinical medicine

- Four to five years of specialty residency training are required.
- Two years of subspecialty training may also be required.

Specialists in laboratory medicine

- Four to five years of specialty residency training are required.

Additional information

- Progression to management positions, such as director of laboratory medicine is possible with experience.

31101 Specialists in surgery

Specialists in surgery perform and supervise surgical procedures. Specialists in surgery usually work in hospitals. Residents in training to become specialists in surgery are included in this unit group.

Illustrative example(s)

- cardiac surgeon
- general surgeon
- neurosurgeon
- obstetrician-gynecologist
- ophthalmologist
- orthopedic surgeon
- orthopedist
- otorhinolaryngologist

- pediatric surgeon
- plastic surgeon
- thoracic surgeon
- urologist
- vascular surgeon

Exclusion(s)

- Chiropractors (31201)
- Dental surgeon (See 31110-Dentists)
- General practitioners and family physicians (31102)
- Immunologist (See 21110-Biologists and related scientists)
- Managers in health care (30010)
- Other professional occupations in health diagnosing and treating (31209)
- Physicians assistants, midwives and allied health professionals (See 31303-Physician assistants, midwives and allied health professionals)
- Specialists in clinical and laboratory medicine (31100)

Main duties

This group performs some or all of the following duties:

General surgeons

- Treat diseases, injuries, and deformities by invasive, minimally-invasive, or non-invasive surgical methods, such as using instruments, appliances, or by manual manipulation.

Obstetricians and gynecologists

- Provide medical care related to pregnancy or childbirth. Diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general medical care to women. May perform both medical and gynecological surgery functions.

Ophthalmologists

- Diagnose, treat, and help prevent diseases and injuries of the eyes and related structures.

Urologists

- Diagnose, treat, and help prevent benign and malignant medical and surgical disorders of the genitourinary system and the renal glands.

Other specialists in surgery

- Assess patients' diseases or disorders to determine appropriate surgical procedures
- Perform and supervise surgical procedures to correct physical abnormalities and deficiencies and repair injuries
- Act as consultants to other physicians.

Employment requirements

- A bachelor's degree or in Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Graduation from an approved medical school and specific specialty training are required.

- Completion of the certifying examinations of the Royal College of Physicians and Surgeons of Canada and licensing by the provincial or territorial licensing authority are required.
- Five to six years of specialty residency training are required.
- Two years of subspecialty training may also be required.

Additional information

- Progression to management positions, such as chief of surgery, is possible with experience.

31102 General practitioners and family physicians

General practitioners and family physicians diagnose and treat the diseases, physiological disorders and injuries of patients. They provide primary contact and continuous care toward the management of patients' health. They usually work in private practice, including group or team practices, hospitals and clinics. Residents in training to be general practitioners or family physicians are included in this unit group.

Illustrative example(s)

- family physician
- general practice resident
- general practitioner (GP)
- medical doctor

Inclusion(s)

- community preventive medicine physician
- medical missionary

Exclusion(s)

- Chiropractors (31201)
- Managers in health care (30010)
- Nurse practitioners (31302)
- Other professional occupations in health diagnosing and treating (31209)
- Physicians assistants, midwives and allied health professionals (See 31303-Physician assistants, midwives and allied health professionals)
- Specialists in clinical and laboratory medicine (31100)

Main duties

This group performs some or all of the following duties:

- Examine patients and take their histories, order laboratory tests, X-rays and other diagnostic procedures and consult with other medical practitioners to evaluate patients' physical and mental health
- Prescribe and administer medications and treatments
- Perform and assist in routine surgery
- Provide emergency care
- Provide acute care management
- Vaccinate patients to prevent and treat diseases

- Deliver babies and provide pre-natal and post-natal care
- Advise patients and their families on health care including health promotion, disease, illness and accident prevention
- Provide counselling and support to patients and their families on a wide range of health and lifestyle issues
- Perform patient advocacy role
- Coordinate or manage primary patient care
- Provide continuous care to patients
- Supervise home care services
- Report births, deaths, and contagious and other diseases to governmental authorities.

Employment requirements

- A bachelor's degree
or
In Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Graduation from an approved medical school and two to three years of family medicine residency training are required.
- Completion of the qualifying examinations of the Medical Council of Canada or the Collège des médecins du Québec
and
Licensing by the provincial or territorial licensing authority are required.

Additional information

- General practitioners and family physicians may become specialist physicians with additional training.

31103 Veterinarians

Veterinarians prevent, diagnose and treat diseases and disorders in animals and advise clients on the feeding, hygiene, housing and general care of animals. They can also perform surgical procedures. They work in private practice or may be employed by animal clinics, farms, laboratories, government or industry.

Illustrative example(s)

- farm veterinarian
- small animal veterinary specialist
- veterinarian
- veterinary inspector
- veterinary pathologist
- veterinary physiologist
- veterinary surgeon
- zoo veterinarian

Exclusion(s)

- Animal health technologists and veterinary technicians (32104)
- Biologists and related scientists (21110)

Main duties

This group performs some or all of the following duties:

- Diagnose diseases or abnormal conditions in individual animals, herds and flocks through physical examinations or laboratory tests
- Treat sick or injured animals by prescribing medication, setting bones, dressing wounds or performing surgery
- Vaccinate animals to prevent and treat diseases
- Perform routine, emergency and post-mortem examinations
- Advise clients on feeding, housing, behaviour, breeding, hygiene and general care of animals
- Provide a range of veterinary services including obstetrics, dentistry and euthanasia
- May supervise animal health technologists and animal care workers
- May be responsible for overall operation of animal hospital, clinic or mobile service to farms
- May conduct veterinary research related to areas such as animal nutrition, health care products development and disease prevention and control
- May enforce government regulations in disease control and food production including animal or animal-based food inspection.

Employment requirements

Doctor of veterinary medicine

- Two years of pre-veterinary university studies or completion of a college program in health science and a four to five year university degree in veterinary medicine and successful completion of an examination leading to a national certification are required.
- A provincial licence to practice is required.

Veterinary specialists

- Completion of a degree in veterinary medicine and three to four years of additional postgraduate studies or residency program in the specialty of their choice are required.
- Veterinary specialists must be accredited by the American College of Veterinary Internal Medicine (ACVIM) or the American Board of Veterinary Practitioners (ABVP). In Quebec, they must be accredited by the Ordre des médecins vétérinaires du Québec and only 18 specialties are recognized.
- A provincial license to practice is required.

Research veterinarian

- Two years of pre-veterinary university studies or completion of a college program in health science and a four to five year university degree in veterinary medicine and successful completion of an examination leading to a national certification are required.
- Entry into research positions may require postgraduate study.
- A provincial licence to practice is required.

Additional information

- The duties of veterinarians performing research may be similar to those of some biologists.
- In its regulations, the 'Ordre des médecins vétérinaires du Québec (OMVQ)' recognizes only the following specialties: Animal behavioural medicine; Laboratory animal medicine; Large animal internal medicine; Large animal surgery; Pet internal medicine; Pet surgery; Veterinary anesthesiology; Veterinary clinical pathology; Veterinary dermatology; Veterinary emergency and intensive care; Veterinary medical imaging; Veterinary microbiology; Veterinary neurology; Veterinary oncology; Veterinary ophthalmology; Veterinary pathology; Veterinary theriogenology; and Zoological medicine.

3111 Dentists, optometrists and audiologists

This minor group comprises dentists, optometrists and audiologists and speech-language pathologists. They work in private practice, in hospitals, clinics, and public health facilities; laboratories; educational institutions; rehabilitation centres; and government; and in the dental and optical industries.

31110 Dentists

Dentists diagnose, treat, prevent and control disorders of the teeth and mouth. They work in private practice or may be employed in hospitals, clinics, public health facilities or universities.

Illustrative example(s)

- dentist
- endodontist
- oral and maxillofacial surgeon
- oral pathologist
- oral radiologist
- orthodontist
- pediatric dentist
- periodontist
- prosthodontist
- public health dentist

Exclusion(s)

- Dental assistants and dental laboratory assistants (33100)
- Dental hygienists and dental therapists (32111)
- Dental technologists and technicians (32112)
- Denturists (32110)

Main duties

This group performs some or all of the following duties:

Dentists

- Examine patients' teeth, gums and surrounding tissue to diagnose disease, injury and decay and plan appropriate preventative or corrective treatment
- Provide general dental care such as cleaning teeth, filling cavities, performing root canals, applying veneers, and fitting crowns, bridges and dentures
- Restore, extract and replace diseased and decayed teeth

- Instruct patients on oral hygiene and preventive dental care
- Monitor patient progress to identify changes or the progression of dental disease
- Prescribe antibiotics or other medication as required
- Bleach, clean, or polish teeth to restore natural color
- Supervise dental hygienists, dental assistants and other staff
- Refer patients to dental specialists as needed for recommended procedures
- May provide basic orthodontic treatments with additional training.

Oral and maxillofacial surgeons

- Collaborate with other professionals, such as restorative dentists and orthodontists, to plan treatment
- Administer general and local anesthetics
- Perform surgery to prepare the mouth for dental implants or to aid in the regeneration of deficient bone and gum tissues
- Remove impacted, damaged, and non-restorable teeth, as well as tumors and other abnormal growths of the oral and facial regions
- Perform surgery on the mouth and jaws to treat conditions, such as cleft lip, palate, and jaw growth problems
- Provide emergency treatment of facial injuries including facial lacerations, intra-oral lacerations, and fractured facial bones
- Treat infections of the oral cavity, salivary glands, jaws, and neck.

Orthodontists

- Examine patients' teeth, gums and surrounding tissue to assess abnormalities of jaw development, tooth position, and other dental-facial structures
- Diagnose teeth and jaw or other dental-facial abnormalities
- Propose treatment plan for conditions such as underbites, overbites, crowding and others
- Design and fabricate appliances, such as space maintainers, retainers, and labial and lingual arch wires
- Fit dental appliances in patients' mouths to alter the position and relationship of teeth and jaws or to realign teeth
- Coordinate orthodontic services with other dental and medical professionals
- Educate patients about improving and maintaining orthodontic care, and promoting routine dental health care.

Prosthodontists

- Examine patient's teeth, gums and jaws to diagnose disease, injury and decay, and plan appropriate treatment to enhance patients' dental and facial aesthetics, or correct orofacial problems
- Replace missing teeth and associated oral structures with permanent fixtures, such as implant-supported prostheses, crowns and bridges, or removable fixtures, such as dentures
- Restore function and improve aesthetics for traumatic injury victims, or individuals with diseases or birth defects
- Design and fabricate dental prostheses, or supervise dental technicians who construct the devices
- Fit prostheses to patients, making any necessary adjustments and modifications
- Restore damaged teeth with materials such as fillings, veneers and crowns
- Collaborate with general dentists, dental specialists, and other health professionals to develop solutions to dental and oral health concerns.

*Employment requirements***Dentists**

- Two to four years of pre-dentistry university studies or, in Quebec, completion of a college program in sciences and a university degree from a recognized dental program are required.
- Licensing by a provincial or territorial regulatory body is required.
- Dentists in general practice can move into a specialized practice through advanced training.

Oral and maxillofacial surgeons

- Four to seven years of specialty residency training in oral and maxillofacial surgery are required.

Orthodontists

- Three years advanced orthodontics and dentofacial orthopedics program accredited by the Canadian Dental Association is required.

Prosthodontists

- Three years advanced prosthodontics program accredited by the Canadian Dental Association is required.

Additional information

- Certification by the National Dental Examining Board of Canada entitles dentists or graduates of approved dental programs to practice dentistry in any province in Canada provided requirements set out by the provincial and territorial licensing authorities are met.
- Dentists with further education, training and licensing, can specialize and practice in such areas as oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontics, endodontics, prosthodontics, oral pathology, oral radiology or public health dentistry.

31111 Optometrists

Optometrists examine eyes to assess and diagnose ocular diseases and disorders. They prescribe and fit eyeglasses and contact lenses and recommend treatments such as exercises to correct vision problems or ocular disorders. They work in private practice, hospitals, clinics, community health centres, rehabilitation centres, the optical industry, government and universities.

Illustrative example(s)

- doctor of optometry (OD)
- optometrist

Exclusion(s)

- Ocularist (See 32129-Other medical technologists and technicians)
- Ophthalmologist (See 31101-Specialists in surgery)
- Opticians (32100)
- Optometric technician (See 33109-Other assisting occupations in support of health services)
- Optometrist assistant (See 33109-Other assisting occupations in support of health services)
- Orthoptist (See 31303-Physician assistants, midwives and allied health professionals)
- Other professional occupations in health diagnosing and treating (31209)

Main duties

This group performs some or all of the following duties:

- Examine patients' eyes, conduct tests and use ophthalmoscopes, biomicroscopes and other specialized instruments to determine ocular health and visual efficiency
- Prescribe and provide treatment (excluding surgery) to maintain, improve and correct vision and manage other ocular diseases and disorders
- Prescribe, dispense and fit eyeglasses, contact lenses and other visual aids
- Educate, counsel and advise patients on contact lens use and care, ocular hygiene, surgical and non-surgical options, and preventive care and maintenance related to occupation and lifestyle
- Refer patients to ophthalmologists or other physicians and surgeons for treatment of ocular diseases or conditions such as cataracts, glaucoma and macular degeneration and systemic conditions such as diabetes and high blood pressure
- Collaborate with ophthalmologists and other healthcare professionals to provide pre- and post-operative care for patients undergoing eye surgeries such as laser vision correction
- May prescribe from a limited list of medications
- Conduct research and promote advancement in the visual sciences.

Optometrists may specialize in fitting visual aids for people who are partially blind, fitting contact lenses or correcting special vision problems.

Employment requirements

- Three years of university undergraduate studies or, in Quebec, completion of a college program in sciences and a four- to five-year university program in optometry are required.
- Licensing by the provincial or territorial regulatory governing body is required.

31112 Audiologists and speech-language pathologists

Audiologists diagnose, evaluate and treat individuals with peripheral and central hearing loss, tinnitus and balance problems. Speech-language pathologists diagnose, assess and treat human communication disorders including speech, fluency, language, voice and swallowing disorders. Audiologists and speech-language pathologists are employed in hospitals, community and public health centres, extended care facilities, day clinics, rehabilitation centres and educational institutions, or may work in private practice. Audiologists and speech-language pathologists who are supervisors are included in this unit group.

Illustrative example(s)

- audiologist
- certified audiologist
- clinical audiologist
- educational speech-language pathologist
- research audiologist
- speech therapist
- speech-language clinician

Exclusion(s)

- Braille instructor (See 42203-Instructors of persons with disabilities)
- Hearing aid practitioner (See 32109-Other technical occupations in therapy and assessment)
- Lip-reading instructor (See 42203-Instructors of persons with disabilities)

- Managers in health care (30010)
- Phoniatician (See 31100-Specialists in clinical and laboratory medicine)
- Sign language instructor (See 42203-Instructors of persons with disabilities)
- Speech-language pathology assistant (See 32109-Other technical occupations in therapy and assessment)

Main duties

This group performs some or all of the following duties:

Audiologists

- Develop and administer audiometric tests and examinations using specialized instruments and electronic equipment to diagnose and evaluate the degree and type of patients' hearing impairment
- Plan and implement habilitation/rehabilitation programs for patients, including selection, fitting and adjustment of amplification devices, such as hearing aids, balance retraining exercises, and teaching speech (lip) reading
- Educate and counsel patients and families regarding the nature, extent, impact and implications of hearing loss and treatment
- Establish personalized care plans working as a member of an interdisciplinary team
- Conduct research related to hearing and hearing disorders
- May instruct and supervise audiometric technicians, students and other health care personnel.

Speech-language pathologists

- Administer tests and examinations and observe patients to diagnose and evaluate speech, voice, resonance, language, fluency, cognitive-linguistic and swallowing disorders
- Develop, plan and implement remedial programs to correct speech, voice, language, fluency, resonance, cognitive-linguistic and swallowing disorders
- Establish group and personalized care plans working as a member of an interdisciplinary team
- Educate and counsel patients and families regarding communication and swallowing disorders
- Conduct research on speech and other communication disorders and on the development and design of diagnostic procedures and devices
- May instruct and supervise communicative disorders assistants, students and other health care personnel.

Employment requirements

- Audiologists require a master's degree in audiology.
- Speech-language pathologists require a master's degree in speech-language pathology.
- Registration with a regulatory body is required for audiologists and speech-language pathologists in Newfoundland and Labrador, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- Membership in the national association, Canadian Association of Speech-Language Pathologists and Audiologists, is usually required.
- In some jurisdictions, audiologists may be required to obtain a separate licence to dispense hearing aids.

Additional information

- Progression into management positions, such as chief audiologist or director of speech-language pathology, is possible with experience.

3112 Pharmacists and dietitians

This minor group comprises pharmacists, dietitians and nutritionists. They are employed by retail and hospital pharmacies, home health-care agencies, extended care facilities, and community health centres; pharmaceutical companies; educational institutions, sports organizations, and government departments and agencies; in the pharmaceutical, and food and beverage industries; or they may be self-employed.

31120 Pharmacists

Community pharmacists and hospital pharmacists compound and dispense prescribed pharmaceuticals and provide consultative services to both clients and health care providers. They are employed in retail pharmacies and health center pharmacies, or they may be self-employed. Industrial pharmacists participate in the research, development, promotion and manufacture of pharmaceutical products. They are employed in pharmaceutical companies and government departments and agencies.

Illustrative example(s)

- clinical pharmacist
- community pharmacist
- hospital pharmacist
- industrial pharmacist
- pharmacist
- retail pharmacist

Exclusion(s)

- Chemists (21101)
- Chief of pharmacy (See 30010-Managers in health care)
- Drugstore manager (See 60020-Retail and wholesale trade managers)
- Pharmaceutical sales representative (See 62100-Technical sales specialists - wholesale trade)
- Pharmacologist (See 21110-Biologists and related scientists)
- Pharmacy director (See 30010-Managers in health care)
- Pharmacy manager - retail (See 60020-Retail and wholesale trade managers)
- Pharmacy technical assistants and pharmacy assistants (33103)
- Pharmacy technicians (32124)

Main duties

This group performs some or all of the following duties:

Community pharmacists and hospital pharmacists

- Check prescriptions for proper dosage
- Compound prescribed pharmaceutical products by calculating, measuring and mixing the quantities of drugs and other ingredients required and filling appropriate containers with correct quantity
- Dispense prescribed pharmaceuticals to customers or to other health care professionals and advise them on indications, contra-indications, adverse effects, drug interactions and dosage
- Maintain medication profiles of customers including registry of poisons and narcotic and controlled drugs
- Ensure proper preparation, packaging, distribution and storage of vaccines, serums, biologicals and other drugs and pharmaceuticals
- Order and maintain stock of pharmaceutical supplies

- Advise customers on selection and use of non-prescription medication
- Renew existing prescriptions in limited circumstances
- May adapt the formulation, regimen, duration or route of administration of medication
- May supervise and coordinate the activities of other pharmacists, pharmacy assistants, pharmacy technicians and other staff.

Industrial pharmacists

- Participate in research for the development of new drugs
- Formulate new drug products developed by medical researchers
- Test new drug products for stability and to determine absorption and elimination patterns
- Coordinate clinical investigations of new drugs
- Control the quality of drug products during production to ensure that they meet standards of potency, purity, uniformity, stability and safety
- Develop information materials concerning the uses, properties and risks of particular drugs
- Evaluate labelling, packaging and advertising of drug products
- Promote pharmaceutical products to health professionals.

Employment requirements

- A university degree in pharmacy and a period of supervised practical training are required.
- Licensure is required in all provinces and territories for community and hospital pharmacists.

31121 Dietitians and nutritionists

Dietitians and nutritionists assess nutrition related issues of individuals and groups and develop, implement and evaluate nutrition care plans to prevent, treat and manage disease. They manage food and nutrition service systems, and plan health promotion programs. They are employed in a variety of settings including hospitals, home health-care agencies and extended care facilities, community health centres, the food, beverage and pharmaceutical industries, educational institutions, and government and sports organizations, or they may work as private consultants.

Illustrative example(s)

- administrative dietitian
- clinical dietitian
- community nutritionist
- consultant dietitian
- dietitian
- dietitian-nutritionist
- nutrition specialist
- nutritionist
- public health dietitian
- public health nutritionist
- registered dietitian (RD)
- research dietitian

Exclusion(s)

- Dietary technician (See 32129-Other medical technologists and technicians)
- Director of dietetics (See 30010-Managers in health care)
- Food service supervisors (62020)
- Holistic nutritionist (See 32209-Other practitioners of natural healing)
- Home economist (See 41403-Social policy researchers, consultants and program officers)

Main duties

This group performs some or all of the following duties:

- Develop, implement and evaluate nutrition programs and services for individuals, communities and populations
- Manage food service systems in hospitals, long-term care facilities, schools, privately owned-food service outlets or similar settings
- Provide nutrition guidance, label interpretation and consultation services to health professionals, individuals, dietetic interns, community groups, government and the media
- Evaluate nutritional status of individuals and aid in the prevention and/or treatment of inadequate nutrition
- Plan, evaluate and conduct nutrition education programs and develop educational materials for various audiences
- Practice on an individual basis or as a member of an interdisciplinary team to determine nutritional needs of patients and to plan, implement and evaluate normal and therapeutic diets to maintain and enhance general health
- Analyze current scientific nutritional studies, conduct research and evaluate program effectiveness to improve the nutritional value, taste, appearance and preparation of food
- Work within industry in the development, testing and evaluation, and marketing of food and nutrition products or as a company representative supplying product related information to health professionals
- Confer with other health professionals, community groups, government and the media to provide consultation and advice in areas of nutrition interpretation, intervention and policy
- Supervise training of dietetic interns.

Dietitians and nutritionists may specialize in areas such as administrative dietetics, clinical dietetics, community dietetics, public health nutrition or research dietetics.

Employment requirements

- Dietitians require a bachelor's degree in dietetics, nutrition or a related field such as food and nutritional science from a program accredited by the Partnership for Dietetic Education and Practice (PDEP), and a period of supervised practical training.
- Successful completion of the Canadian Dietetic Registration Exam (CDRE) is required in all provinces except Quebec.
- Registration with a regulatory body is required in all provinces for dietitians.
- Membership in the national association, Dietitians of Canada, is voluntary.
- Registration with a regulatory body is required for nutritionists in Nova Scotia, Quebec and Alberta. In the remaining provinces, nutritionists may require the same education and practical training as dietitians.
- Membership with the national association, Dietitians of Canada, and/or a provincial regulatory body is available for nutritionists who have the same education and practical training as dietitians.

Additional information

- Dietitians and nutritionists are protected titles and used interchangeably in Nova Scotia, Quebec and Alberta. In these provinces nutritionists require the same level of education and training as dietitians.
- In some provinces dietitians who work as Public Health Nutritionists and dietetic education program coordinators may require a Master's degree.
- Dietitians and nutritionists may progress to management positions through additional experience.

312 Therapy and assessment professionals

This sub-major group comprises therapy and assessment professionals, including psychologists; chiropractors; physiotherapists; occupational therapists; kinesiologists and other professional occupations in therapy and assessment; and other professional occupations in health diagnosing and treating.

3120 Therapy and assessment professionals

This minor group comprises therapy and assessment professionals, including psychologists; chiropractors; physiotherapists; occupational therapists; kinesiologists and other professional occupations in therapy and assessment; and other professional occupations in health diagnosing and treating. They are employed by hospitals, community and public health centres, extended care and health care facilities, nursing homes, clinics, rehabilitation and recreational centres, and private and social services agencies; educational institutions, and sports organizations; in industry; or they may work in private practice.

31200 Psychologists

Psychologists assess and diagnose behavioural, emotional and cognitive disorders, counsel clients, provide therapy, conduct research and apply theory relating to behaviour and mental processes. Psychologists help clients work toward the maintenance and enhancement of psychological, physical, intellectual, emotional, social and interpersonal functioning. They work in private practice or in clinics, correctional facilities, hospitals, mental health facilities, rehabilitation centres, community service organizations, businesses, schools and universities, and in government and private research agencies.

Illustrative example(s)

- clinical psychologist
- psychological associate
- psychologist
- research psychologist

Exclusion(s)

- Psychiatrist (See 31100-Specialists in clinical and laboratory medicine)
- Psychology assistant (except university) (See 41403-Social policy researchers, consultants and program officers)
- Psychology professor - university (See 41200-University professors and lecturers)
- Psychology research assistant (except university) (See 12113-Statistical officers and related research support occupations)
- Psychometrist (See 41409-Other professional occupations in social science)
- Therapists in counselling and related specialized therapies (41301)

Main duties

This group performs some or all of the following duties:

- Examine and assess behaviour, diagnose behavioural, emotional and cognitive disorders, counsel clients and provide therapy
- Help clients manage physical illness and disorders
- Counsel individuals and groups to achieve more effective personal, social and vocational development and adjustment, and offer mediation services
- Use standard psychological tests for assessment
- Plan intervention programs and conduct program evaluation
- Apply psychological theory and principles regarding behaviour and mental processes such as learning, language development, memory and perception to develop treatment programs
- Formulate hypotheses and experimental designs, review literature, conduct studies and publish research papers, educational texts and articles
- Deliver presentations at conferences, workshops or symposia
- Provide consultation services to government and other organizations
- Conduct applied psychology and/or experimental research.

Sub-specialties include behavioural psychology, child psychology, cognitive psychology, developmental psychology, educational psychology, industrial psychology, neuropsychology, social psychology or sports psychology.

Employment requirements

- A doctoral degree in psychology is required in order to use the designation “Psychologist” in Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba and British Columbia.
- A master’s degree in psychology is required for the designation “Psychologist” in Newfoundland and Labrador, Nova Scotia, Saskatchewan, Alberta, the Northwest Territories and Nunavut.
- A master’s degree in psychology is required in order to use the designation “Psychological Associate” in Prince Edward Island, Ontario, Manitoba and British Columbia.
- A period of supervised practical experience is required in most jurisdictions.
- Successful completion of the written Examination for Professional Practice in Psychology (EPPP) is required in most provinces.
- Oral examinations and board interviews are required in some provinces.
- Registration with a regulatory body is required in all provinces, the Northwest Territories and Nunavut.
- Written ethics and jurisprudence exams may be required in some jurisdictions.
- Psychologists can become specialized in a particular area through training and experience.

Additional information

- Psychological associates may be granted permission by provincial regulatory authorities to perform duties normally restricted to psychologists, specifically diagnosing psychological disorders and communicating diagnoses to clients.

31201 Chiropractors

Chiropractors assess, diagnose, treat and prevent patients’ neuromuscular-skeletal disorders of the spine, nervous system, pelvis and other body joints using corrective manipulation including spinal column adjustments, or other complementary therapies. They are usually in private practice or in clinics with other health practitioners.

Illustrative example(s)

- chiropractor

Exclusion(s)

- Chiropractic aide (See 33109-Other assisting occupations in support of health services)

Main duties

This group performs some or all of the following duties:

- Conduct patient interviews and take medical histories
- Conduct an examination including postural assessment, range of motion tests, neurological and orthopedic examination, and palpation of joints and soft tissues
- Prescribe and/or perform X-rays and other imaging and tests as required to diagnose patient's condition
- Diagnose neuromuscular-skeletal disorders of the spinal column, pelvis, extremities and associated tissues
- Define and implement a treatment plan including spinal and joint adjustment or manipulations, soft tissue work and/or the use of complementary therapies; such as electrotherapy, acupuncture, heat therapy and massage
- Communicate and collaborate with other health care professionals
- Advise patients on alternate treatment modalities such as corrective exercises, posture, nutritional and lifestyle counselling, that have positive effects on the spine, joints, muscles and nervous system
- Refer patients to other health care professionals when appropriate.

Employment requirements

- A minimum of three years of university undergraduate studies or in Quebec, completion of a college diploma in natural science is required.
- Completion of a four or five year program at an Accredited Doctor of Chiropractic Education Programme is required.
- Successful completion of the national examinations by the Canadian Chiropractic Examining Board is required to qualify to become licensed by a provincial or territorial body.
- Licensing by a regulatory body is required in all provinces and in Yukon.

Additional information

- The scope of practice of chiropractors varies by province.

31202 Physiotherapists

Physiotherapists assess clients and plan and carry out individually designed treatment programs to maintain, improve or restore physical functioning and mobility, alleviate pain and prevent physical dysfunction in clients. They are employed in hospitals, clinics, industry, sports organizations, rehabilitation centres and extended care facilities, or may work in private practice.

Illustrative example(s)

- physical therapist
- physiotherapist
- registered physiotherapist
- research physiotherapist

Inclusion(s)

- physical therapy clinical coordinator
- physiotherapy clinical coordinator

Exclusion(s)

- Director of physiotherapy (See 30010-Managers in health care)
- Physical rehabilitation therapist (See 32109-Other technical occupations in therapy and assessment)
- Physiotherapy assistant (See 32109-Other technical occupations in therapy and assessment)

Main duties

This group performs some or all of the following duties:

- Assess clients' physical abilities using assessment procedures such as functional ability tests and make a physiotherapy diagnosis
- Establish treatment goals with clients based on diagnosis
- Develop and implement physiotherapy treatment plans including therapeutic exercise, manipulations, massage, education, electrotherapy hydrotherapy and other modalities
- Evaluate effectiveness of treatment plans and modify accordingly
- Provide advice on exercise and strategies to implement at home to enhance and or maintain treatment
- Communicate with referring physician and other health care professionals regarding clients' problems, needs and progress
- Maintain clinical and statistical records and confer with other health care professionals
- Develop and implement health promotion programs for clients, staff and the community
- May conduct research in physiotherapy
- Provide consulting or education services as required.

Physiotherapists may focus their practice in particular clinical areas such as neurology, oncology, rheumatology, orthopedics, obstetrics, pediatrics, geriatrics, in the treatment of patients with cardiovascular and cardiopulmonary disorders, burns or sports injuries or in the field of ergonomics.

Employment requirements

- A master's degree in physiotherapy and a period of supervised practical training are required.
- A licence or registration with a regulatory body is required in all provinces and territories.
- Completion of a physiotherapist competency examination is required in all provinces and territories.

Additional information

- Progression to management positions, such as director of physiotherapy, is possible through experience and additional training.

31203 Occupational therapists

Occupational therapists develop individual and group programs with people affected by illness, injury, developmental disorders, emotional or psychological problems and aging to maintain, restore or increase their ability to care for themselves and to engage in work, school or leisure. They also develop and implement health promotion programs with individuals, community groups and employers. They are employed in health care facilities, in schools, and by private and social services agencies, or they may be self-employed.

Illustrative example(s)

- case manager occupational therapist
- clinical occupational therapist
- community occupational therapist
- occupational therapist (OT)
- occupational therapy rehabilitation consultant
- research and development occupational therapist

Exclusion(s)

- Director of occupational therapy (See 30010-Managers in health care)
- Orientation and mobility instructor (See 42203-Instructors of persons with disabilities)

Main duties

This group performs some or all of the following duties:

- Analyse clients' capabilities and expectations related to life activities through observation, interviews and formal assessments
- Develop intervention programs to address clients' needs related to self-care, work and leisure activities
- Maintain clients' records
- Establish personalized care plans working as a member of an interdisciplinary team
- Consult and advise on health promotion programs to prevent disabilities and to maximize independent function in all activities of life
- May supervise support personnel and students and provide training.

Occupational therapists may specialize in working with specific populations such as children or adults, or persons with distinct problems such as dementia, traumatic brain injury and chronic pain, or provide special interventions such as return-to-work programs.

Employment requirements

- A university degree in occupational therapy including supervised fieldwork is required.
- Completion of a national or provincial certification examination is required.
- Licensure with a regulatory body is required in all provinces and territories.
- Membership in the national association, Canadian Association of Occupational Therapists, is required in some provinces.
- Occupational therapists may obtain expertise in a particular area through additional training or experience.

Additional information

- Occupational therapists may progress to management or administrative positions through further training and experience.

31204 Kinesiologists and other professional occupations in therapy and assessment

Kinesiologists and other professional occupations in therapy and assessment include specialized therapists who use techniques such as athletic or recreational therapy to aid in the treatment of mental and physical disabilities or injuries. They are employed by establishments such as hospitals, rehabilitation centres, extended health care facilities, clinics, recreational centres, nursing homes, industry, educational institutions and sports organizations, or they may work in private practice.

Illustrative example(s)

- athletic therapist
- certified athletic therapist (CAT)
- certified kinesiologist
- exercise physiologist
- human kineticist
- kinesiologist
- recreational therapist

Exclusion(s)

- Kinesitherapist (See 32109-Other technical occupations in therapy and assessment)
- Occupational therapists (31203)
- Physiotherapists (31202)
- Recreation, sports and fitness policy researchers, consultants and program officers (41406)
- Therapists in counselling and related specialized therapies (41301)

Main duties

This group performs some or all of the following duties:

- Assess patients and review reports from physicians, physiotherapists, psychiatrists, counsellors, teachers and other professionals to determine patients' current and potential functioning level
- Prepare individualized and group treatment plans either independently or through a multidisciplinary team approach, based on health concerns and on recommendations from physicians or other health professionals
- Design specialized therapy programs to maintain, rehabilitate or enhance movement, musculoskeletal functioning and performance in sports, work and recreation
- Implement treatment plans by carrying out specialized therapy sessions employing approaches and techniques such as recreational, sports or other movement therapy
- Observe, record observations and analyze patients during treatment sessions, write progress reports on patient outcomes and consult with other health professionals to evaluate treatment plans
- May provide education to clients regarding health promotion and injury prevention, management and treatment
- May conduct research in respective field of specialization.

Employment requirements

- Kinesiologists require a four-year bachelor's degree in kinesiology, physical education or human kinetics.
- Certification for kinesiologists is available through the Canadian Kinesiology Alliance.
- Registration with a regulatory body is required for kinesiologists in Ontario.
- Athletic therapists require a bachelor's degree in sport therapy or a degree in health sciences with a specialization in sports injury management.
- Recreational therapists usually require a bachelor's degree in recreation with a specialization in therapeutic recreation.
- Supervised practical training is usually required for occupations in this unit group.
- Certification or membership with the appropriate national professional association or provincial counterpart may be required.

Additional information

- There is no mobility between the different occupations in this unit group.

31209 Other professional occupations in health diagnosing and treating

Other professional occupations in health diagnosing and treating, who are not elsewhere classified, diagnose and treat the diseases and injuries of patients. This unit group includes doctors of podiatric medicine, naturopathic medicine and osteopathic medicine, and also includes chiropodists and podiatrists. They work in private practices, clinics and hospitals.

Illustrative example(s)

- chiropodist
- doctor of naturopathic medicine
- doctor of osteopathic medicine
- doctor of podiatric medicine (D.P.M.)
- foot specialist
- naturopathic doctor (ND)
- osteopathic physician
- podiatrist

Exclusion(s)

- Chiropractors (31201)
- General practitioners and family physicians (31102)
- Orthoptist (See 31303-Physician assistants, midwives and allied health professionals)
- Osteopathic manual practitioner (See 32209-Other practitioners of natural healing)
- Osteopathic manual therapist (See 32209-Other practitioners of natural healing)
- Specialists in clinical and laboratory medicine (31100)
- Specialists in surgery (31101)

Main duties

This group performs some or all of the following duties:

Doctors of podiatric medicine

- Diagnose diseases, deformities and injuries of the human foot and communicate diagnoses to patients
- Treat patients using braces, casts, shields, orthotic devices, physical therapy, or prescribed medications
- May also perform surgery on the bones of the forefoot and the subcutaneous soft tissues of the foot.

Chiropodists and diploma or first-degree trained podiatrists

- Diagnose diseases, deformities and injuries of the human foot
- Treat patients using braces, casts, shields, orthotic devices, physical therapy and subcutaneous soft-tissue foot surgery.

Doctors of naturopathic medicine

- Diagnose patients' diseases and disorders

- Employ natural methods of healing such as acupuncture and acupressure, spinal manipulation, reflexology, hydrotherapy, herbal medicines, biochemical therapy, clinical nutrition, homeopathy and counselling in their treatment.

Doctors of osteopathic medicine

- Diagnose disorders and injuries of the musculoskeletal, circulatory and nervous systems
- Treat patients with manipulative therapy, medications or surgery.

Employment requirements

Doctors of podiatric medicine (D.P.M.)

- A four-year doctoral degree program in podiatric medicine available in the United States and in Quebec, normally following completion of a bachelor's degree program, is required.
- A medical residency is required in Alberta and British Columbia.
- A doctor of podiatric medicine (D.P.M.) degree is required to practice podiatry in Quebec, Ontario, Alberta and British Columbia.

Chiropodists and podiatrists

- An advanced three-year diploma program in chiropody (DCh) obtained in Canada
or
A first-degree program in podiatric medicine (D.Pod.M.) obtained abroad (United Kingdom) is usually required.
- A licence is required in New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

Doctors of naturopathic medicine

- A university degree in pre-medical science is required.
- Completion of a university program in naturopathic medicine, obtained abroad
or
A four-year program in naturopathic medicine from a private institute is required.
- A licence is required in Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

Doctors of osteopathic medicine

- A bachelor's degree is required for admission to a doctor of osteopathic medicine program.
- A four-year program in osteopathic medicine leading to a doctor of osteopathy degree
and
A minimum three-year medical residency are required. These qualifications are obtained in the United States.
- Completion of certifying examinations of the Royal College of Physicians and Surgeons of Canada
and
Licensing by the provincial or territorial licensing authority are required.

Additional information

- Chiropodist and podiatrist titles are used interchangeably, depending on the province or territory. The use of the podiatrist job title does not necessarily refer to doctors of podiatric medicine (D.P.M.).
- Doctors of osteopathic medicine may obtain a licence as general practitioners.

313 Nursing and allied health professionals

This sub-major group comprises nursing and allied health professionals, including nursing coordinators and supervisors; registered nurses and registered psychiatric nurses; nurse practitioners; and physician assistants, midwives and allied health professionals.

3130 Nursing and allied health professionals

This minor group comprises nursing and allied health professionals, including nursing coordinators and supervisors; registered nurses and registered psychiatric nurses; nurse practitioners; and physician assistants, midwives and allied health professionals. They are employed by hospitals, clinics, extended care facilities, rehabilitation centres, nursing homes, nursing and community agencies, doctors' offices, companies, and private homes; or they may be self-employed.

31300 Nursing coordinators and supervisors

Nursing coordinators and supervisors coordinate and supervise the activities of registered nurses, registered psychiatric nurses, licensed practical nurses and other nursing personnel in the provision of patient care. They are employed in health care institutions such as hospitals, clinics and nursing homes, and in nursing agencies.

Illustrative example(s)

- nursing care coordinator
- nursing services coordinator
- nursing supervisor
- patient care coordinator - nursing
- psychiatric nursing supervisor
- public health nursing supervisor

Exclusion(s)

- Managers in health care (30010)

Main duties

This group performs some or all of the following duties:

- Supervise registered nurses, licensed practical nurses and other nursing personnel
- Evaluate patients' needs and ensure that required nursing care is delivered
- Set up and coordinate nursing services in conjunction with other health services
- Ensure quality nursing care is provided and appropriate administrative procedures are followed
- Assist in the establishment of unit policies and procedures
- Administer nursing unit budget and ensure that supplies and equipment are available
- Assist in the selection, evaluation and professional development of nursing personnel
- Collaborate on research projects related to nursing and medical care and multidisciplinary services
- May provide direct patient care.

Employment requirements

- Completion of a university, college or other approved registered nursing, or registered psychiatric nursing, program is required.
- Courses in management studies or a degree, diploma or certificate in management or administration may be required.

- Registration with a regulatory body is required for registered nurses in all provinces and territories and for registered psychiatric nurses in Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon.
- Clinical experience as a registered nurse, or as a registered psychiatric nurse, is required.

Additional information

- Progression to management positions, such as director of nursing, is possible with experience.

31301 Registered nurses and registered psychiatric nurses

Registered nurses and registered psychiatric nurses provide direct nursing care to patients, deliver health education programs and provide consultative services regarding issues relevant to the practice of nursing. They are employed in a variety of settings including hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, community agencies, companies, private homes and public and private organizations or they may be self-employed.

Illustrative example(s)

- clinical nurse
- community health nurse
- critical care nurse
- emergency care nurse
- intensive care nurse
- nurse researcher
- nursing consultant
- occupational health nurse
- private duty nurse
- public health nurse
- registered nurse (R.N.)
- registered psychiatric nurse (R.P.N.)

Inclusion(s)

- infection control officer

Exclusion(s)

- Nurse practitioners (31302)
- Nursing coordinators and supervisors (31300)
- Nursing services manager - medical services (See 30010-Managers in health care)
- Registered practical nurse (R.P.N.) (See 32101-Licensed practical nurses)

Main duties

This group performs some or all of the following duties:

General duty registered nurses

- Assess patients to identify appropriate nursing interventions
- Collaborate with members of an interdisciplinary health team to plan, implement, coordinate and evaluate patient care in consultation with patients and their families

- Administer medications and treatments as prescribed by a physician or according to established policies and protocols
- Monitor, assess, address, document and report symptoms and changes in patients' conditions
- Operate or monitor medical apparatus or equipment
- Assist in surgery and other medical procedures
- May supervise licensed practical nurses and other nursing staff
- May develop and implement discharge planning process on admission of patients
- May teach and counsel patients and their families on health-related issues in collaboration with other health care providers.

Registered nurses may specialize in areas such as surgery, obstetrics care, psychiatric care, critical care, pediatrics, geriatrics, community health, occupational health, emergency care, rehabilitation or oncology.

Occupational health nurses

- Develop and implement employee health education programs and provide registered nursing care in private businesses and industry.

Community health nurses

- Provide health education and registered nursing care in public health units and through home visits, manage complex home care cases, participate in community needs assessment and program development, conduct disease screening and deliver immunization programs.

Registered psychiatric nurses

- Provide nursing care, supportive counselling and life skills programming to patients in psychiatric hospitals, mental health clinics, long-term care facilities and community-based settings.

Nursing researchers and consultants

- Engaged in research activities related to nursing, as self-employed or as employed by hospitals, public and private organizations and governments.
- Provide consultative services to institutes, associations and health care organizations regarding issues and concerns relevant to the nursing profession and nursing practice.

Clinical nurses

- Provide leadership, advice and counsel on the provision of research-based care for specific patient groups within the care of particular health care organizations.

Employment requirements

Registered nurses

- Completion of a university, college or other approved registered nursing program is required.
- Additional academic training or experience is required to specialize in a specific area of nursing.
- A master's or doctoral degree in nursing is usually required for clinical nurse specialists, clinical nurses, nursing consultants and nursing researchers.
- Registration with a regulatory body is required in all provinces and territories.

Registered psychiatric nurses

- Completion of a university or college registered psychiatric nursing program is required.
- Registration with a regulatory body is required in Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon.

Additional information

- Nurses trained exclusively as registered psychiatric nurses (RPN) are regulated in Manitoba, Saskatchewan, Alberta and British Columbia. In all other provinces and territories, registered nurses (RN) may work as psychiatric nurses without separate registration.
- Registered nurses and registered psychiatric nurses may progress to supervisory and managerial positions with experience.

31302 Nurse practitioners

Nurse practitioners are registered nurses with additional education, advanced knowledge and nursing experience, and a specialty of practice. They provide a range of health services to patients and deliver preventive and continuous care toward the management of patients' health. Nurse practitioners work in conjunction with physicians and collaboratively with other nursing colleagues and health-care providers, or they may work independently. They are employed in community health centres, hospitals, clinics, long-term care facilities, and rehabilitation centres. Nurse practitioners may specialize in primary healthcare or acute care.

Illustrative example(s)

- extended class registered nurse
- nurse practitioner
- pediatric nurse practitioner

Exclusion(s)

- General practitioners and family physicians (31102)
- Managers in health care (30010)
- Other professional occupations in health diagnosing and treating (31209)
- Physicians assistants, midwives and allied health professionals (See 31303-Physician assistants, midwives and allied health professionals)
- Registered nurses and registered psychiatric nurses (31301)
- Specialists in clinical and laboratory medicine (31100)
- Specialists in surgery (31101)

Main duties

This group performs some or all of the following duties:

- Examine patients and take their medical histories and consult with physicians and other medical practitioners to evaluate patients' physical and mental health
- Order laboratory tests, X-rays and other diagnostic procedures
- Inoculate and vaccinate patients
- Advise patients and their families on health care including health promotion, disease, illness and accident prevention
- Collaborate with members of an interdisciplinary health team such as family physicians, therapists and nutritionists to plan, implement, coordinate and evaluate patient care in consultation with patients and their families
- Perform a patient advocacy role
- Prescribe and administer medications
- May coordinate or manage primary patient care.

Employment requirements

- Nurse practitioners usually require a master's degree in nursing; or completion of a nursing program with additional advanced or extended primary health care nursing education; and several years of practice as a registered nurse.
- Registration with a regulatory body is required for nurse practitioners in all provinces and territories.

Additional information

- There is little to no mobility between nurse practitioner specializations without further training.

31303 Physician assistants, midwives and allied health professionals

Physician assistants and midwives provide primary health care and treatment in conjunction with physicians and in collaboration with other health professionals. Physician assistants provide a range of health services to patients delivering preventive and continuous care toward the management of patients' health. Midwives provide full-course care to women and their babies during the pre- and post-natal period. This unit group also includes professionals such as genetic counsellors, orthoptists and pathologists' assistants, who work in collaboration with primary health occupations. Genetic counsellors assess individual or family risk of genetic conditions, and provide information to individuals, families and healthcare providers to promote informed choice. Orthoptists diagnose and treat binocular disorders. Pathologists' assistants assist at autopsies and examinations of surgical specimens, or perform autopsies under a pathologist's supervision. Physician assistants usually work under physicians in private practice, including group or team practices, hospitals and clinics. Midwives are employed in hospitals, clinics, birthing centres or in private practice. Genetic counsellors usually work in private practice, hospitals, clinics and research institutes. Orthoptists work under an ophthalmologist, particularly in private practices or clinics. Pathologists' assistants are usually employed in hospitals and universities.

Illustrative example(s)

- genetic counsellor
- midwife
- orthoptist
- pathology assistant
- physician assistant

Exclusion(s)

- General practitioners and family physicians (31102)
- Managers in health care (30010)
- Nurse practitioners (31302)
- Other practitioners of natural healing (32209)
- Other professional occupations in health diagnosing and treating (31209)
- Registered nurses and registered psychiatric nurses (31301)
- Specialists in clinical and laboratory medicine (31100)
- Specialists in surgery (31101)
- Traditional Chinese medicine practitioners and acupuncturists (32200)

Main duties

This group performs some or all of the following duties:

Physician assistants

- Conduct patient interviews, physical assessments and take medical histories
- Perform or order diagnostic tests and interpret results
- In consultation with a supervising physician, formulate and implement treatment plans and monitor patients' progress
- Perform and assist in minor surgery
- Provide health maintenance education
- May participate in research activities
- May prescribe from a limited list of medications.

Midwives

- Provide primary, full-course, care to women and their babies during pregnancy, such as physical examinations, screening and diagnostic tests to monitor the health of mother and baby and make referrals to medical specialists as required
- Manage labour and spontaneous normal deliveries
- Care for, assess and monitor the health of newborns and refer infants to appropriate medical services as required
- Provide advice and guidance regarding care for newborns and young infants.

Genetic counsellors

- Provide information and support to families affected by or at risk of a genetic disorder
- Gather and analyze family history and inheritance patterns, calculate risks of recurrence, and provide information about genetic testing and related procedures
- Develop, implement or coordinate action plans and refer individuals and families to other health professionals
- Design and conduct genetics training programs for other healthcare professionals or the general public
- May conduct research in the field of medical genetics and genetic counselling.

Orthoptists

- Work alongside ophthalmologists to diagnose and treat eye disorders by performing specialized eye tests to measure and assess defective binocular vision or abnormal eye movement in patients
- Prescribe treatment such as eye exercises or patching regimens.

Pathologists' assistants

- Prepare for autopsies by obtaining patients' medical records and arranging for radiographic examinations
- Prepare, assist with or perform autopsies and surgical specimen examinations under pathologists' supervision
- Assist with preparation of provisional autopsy report
- Dissect, examine, weigh, photograph and X-ray organs and specimens, collect tissue samples for chemical analysis and record findings
- Discard specimens according to established safety procedures
- Clean and maintain instruments, equipment and supplies
- Develop and maintain processes for laboratory quality control

- May prepare bodies for release to funeral homes following completion of autopsies
- May supervise and train junior resident pathologists and morgue attendants.

Employment requirements

Physician assistants

- Physician assistants require completion of a university degree in a physician assistant program.
- Physician assistants require registration with a regulatory body in Manitoba and New Brunswick.

Midwives

- Midwives require completion of an undergraduate university degree program in midwifery or its equivalent and a period of supervised practical training.
- Registration with a regulatory body is required for midwives in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, the Northwest Territories and Nunavut.

Genetic counsellors

- Genetic counsellors usually require a master's degree in genetic counselling and the certification with the Canadian Association of Genetic Counsellors (CAGC).

Orthoptists

- A bachelor's degree and completion of a two-year accredited training program in orthoptics are required.
- Certification with the Canadian Orthoptic Council is required.
- Continuing education is required for recertification with the Canadian Orthoptic Council.

Pathologists' assistants

- Pathologists' assistants usually require completion of a master's degree in a pathologists' assistant program.
- Certification by the Canadian Certification Council of Pathologists' Assistants, the American Society for Clinical Pathology - Board of Certification, or Pathologists' Assistant Certification Examination is usually required by employers.
- Membership in the national association, Canadian Association of Pathologists, is voluntary, but may be required by some employers.

Additional information

- There is no mobility between these occupations without further training.

32 Technical occupations in health

This major group comprises technical occupations in health and practitioners of natural healing. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

321 Technical occupations in health (except practitioners of natural healing)

This sub-major group comprises technical occupations in health other than practitioners of natural healing, including technical occupations in therapy and assessment; technical occupations in dental health care; and medical technologists and technicians.

3210 Technical occupations in therapy and assessment

This minor group comprises technical occupations in therapy and assessment, including opticians; licensed practical nurses; paramedical occupations; respiratory therapists, clinical perfusionists and cardiopulmonary technologists; animal health technologists and veterinary technicians; and other technical occupations in therapy and assessment. They are employed by hospitals, community and public health centres, extended care and health care facilities, nursing homes, clinics, rehabilitation and recreational centres, and private and social services agencies; educational institutions, and sports organizations; in industry; or they may be self-employed.

32100 Opticians

Opticians assist clients in the selection of eyeglass frames, take the necessary measurements and arrange for the production of eyeglasses or contact lenses, mount lenses in eyeglass frames and fit clients with final prescription eyeglasses and contact lenses. They are employed in optical retail outlets or other establishments with optical dispensing departments, or they may be self-employed. Student opticians and opticians who are managers of optical retail outlets are included in this unit group.

Illustrative example(s)

- contact lens fitter
- contact lens practitioner
- dispensing optician
- licensed optician
- optician

Exclusion(s)

- Dispensing opticians office manager (See 60020-Retail and wholesale trade managers)
- Ocularist (See 32129-Other medical technologists and technicians)
- Ophthalmologist (See 31101-Specialists in surgery)
- Optical laboratory technician (See 33109-Other assisting occupations in support of health services)
- Optometrists (31111)

Main duties

This group performs some or all of the following duties:

- Obtain specifications for eyeglasses or contact lenses from a prescription prepared by an ophthalmologist or optometrist or by analyzing the client's eyeglasses or contact lenses and take necessary measurements including the curvature of the eyes, the accurate position of the pupils and bridge width, using optical measuring devices
- Advise clients on eyeglasses selection by informing them of different products such as lens materials, frames, tints and anti-reflection coating
- Adjust contact lenses and inform client on use and care
- Grind, polish, cut and edge lenses or have them made by a laboratory before inserting them into the frame
- Adjust finished eyeglasses to fit client
- May supervise or manage the activities of other opticians or student opticians.

- Employment requirements
- Completion of a two- or three-year college program in ophthalmic dispensing or optical sciences is required.
- Licensing by a regulatory body for opticians is required in all provinces.

Licensing requirements for scope of practice and protected titles related to the sale or dispensing and fitting of contact lenses vary by province.

32101 Licensed practical nurses

Licensed practical nurses provide nursing care usually under the direction of medical practitioners, registered nurses or other health team members. Operating room technicians prepare patients and provide assistance to medical practitioners prior to and during surgery. Licensed practical nurses are employed in hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, companies, private homes and community health centres. Operating room technicians are employed in hospitals.

Illustrative example(s)

- graduate nursing assistant
- licensed practical nurse (L.P.N.)
- operating room technician
- registered nursing assistant (R.N.A.)

Exclusion(s)

- Home support workers, caregivers and related occupations (44101)
- Nurse aides, orderlies and patient service associates (33102)

Main duties

This group performs some or all of the following duties:

Licensed practical nurses

- Provide nursing services, within defined scope of practice, to patients based on patient assessment and care planning procedures
- Perform nursing interventions such as taking vital signs, applying aseptic techniques including sterile dressing, ensuring infection control, monitoring nutritional intake and conducting specimen collection
- Administer medication and observe and document therapeutic effects
- Provide pre-operative and post-operative personal and comfort care
- Monitor established respiratory therapy and intravenous therapy
- Monitor patients' progress, evaluate and document effectiveness of nursing interventions and collaborate with appropriate members of health care team
- Provide safety and health education to individuals and their families.

Operating room technicians

- Prepare patients for surgery by washing, shaving and sterilizing the patients' operative areas
- Assist in surgery by laying out instruments, setting up equipment, assisting surgical teams with gowns and gloves and passing instruments to surgeons

- Monitor patients' status during surgery, such as intake, output and loss of blood, and communicate and document any changes
- Clean and sterilize the operating room and instruments.

Employment requirements

- Completion of a vocational, college or other approved program for licensed practical nurses is required.
- Registration with a regulatory body is required in all provinces and territories.
- Completion of a registration examination is required in all provinces and territories.
- Operating room technicians require additional academic training in operating room techniques.

Additional information

- Working under the direction of a medical practitioner or registered nurse is not required for licensed practical nurses in all jurisdictions.

32102 Paramedical occupations

Workers in paramedical occupations administer pre-hospital emergency medical care to patients with injuries or medical illnesses and transport them to hospitals or other medical facilities for further medical care. They are employed by private ambulance services, hospitals, fire departments, government departments and agencies, manufacturing firms, mining companies and other private sector establishments. Paramedics who are supervisors are included in this unit group.

Illustrative example(s)

- advanced care paramedic
- ambulance attendant
- ambulance services supervisor
- critical care paramedic
- emergency medical technician (EMT)
- emergency medical technologist - paramedic (EMT-P)
- paramedic
- paramedic emergency medical technician
- primary care paramedic

Inclusion(s)

- emergency medical assistant
- emergency medical attendant (EMA)

Exclusion(s)

- Emergency medical care assistant (See 33102-Nurse aides, orderlies and patient service associates)
- Emergency medical care attendant (non-paramedical) (See 33102-Nurse aides, orderlies and patient service associates)
- Emergency medical responder (non-paramedical) (See 33102-Nurse aides, orderlies and patient service associates)
- Other assisting occupations in support of health services (33109)

Main duties

This group performs some or all of the following duties:

- Assess extent of injuries or medical illnesses of trauma victims, patients with respiratory disease and stress, overdose and poisoning victims, industrial accident victims and other ill or injured individuals to determine emergency medical treatment
- Administer pre-hospital emergency care to patients such as oxygen therapy, cardiopulmonary resuscitation (CPR), spinal immobilization, bandaging and splinting
- Establish and maintain intravenous treatment (IV), apply adjunctive equipment for ventilation and circulation complications, administer medications and provide other advanced emergency treatment to patients
- Transport patients by air, land or water to hospital or other medical facility for further medical care
- Collaborate with ambulance dispatch centres, hospital staff, police, firefighters and family members to ensure relevant information is collected and proper treatment is administered
- Document and record nature of injuries and illnesses and treatment provided
- Assist hospital personnel with provision of medical treatment, if necessary
- Maintain emergency care equipment and supplies
- May train and supervise other workers in this unit group
- May assist with triage of emergency patients.

Employment requirements

- Completion of a one- to three-year college, hospital-based or other recognized paramedical or emergency medical technology program is required.
- Licensing by a regulatory body is required in all provinces.
- Those operating emergency vehicles require an appropriate class of licence.

32103 Respiratory therapists, clinical perfusionists and cardiopulmonary technologists

Respiratory therapists assist physicians in the evaluation, diagnosis, treatment and care of patients with respiratory and cardiopulmonary disorders. Clinical perfusionists provide technical support to patients undergoing cardiac surgery and patients requiring cardio-respiratory support. Cardiopulmonary technologists assist physicians in the technical aspects of diagnosis and treatment of cardiovascular and pulmonary disease. Respiratory therapists are employed in hospitals, extended care facilities, public health centres, sleep, private or dental clinics and respiratory home care companies. Clinical perfusionists and cardiopulmonary technologists are primarily employed in hospitals. Respiratory therapists, clinical perfusionists and cardiopulmonary technologists who are supervisors or instructors are included in this unit group.

Illustrative example(s)

- anesthesia assistant
- cardiopulmonary technologist
- cardiovascular perfusion supervisor
- cardiovascular perfusionist
- certified clinical perfusionist (CCP)
- chief respiratory technologist
- clinical perfusionist
- perfusionist
- registered respiratory therapist (RRT)
- respiratory therapist

- respiratory therapy chief
- respiratory therapy clinical instructor

Inclusion(s)

- anesthesia technologist
- polysomnographic technologist

Exclusion(s)

- Other medical technologists and technicians (32129)
- Other technical occupations in therapy and assessment (32109)

Main duties

This group performs some or all of the following duties:

Respiratory therapists

- Perform diagnostic tests, such as arterial blood gas analysis and cardiopulmonary functions tests
- Operate and monitor respiratory equipment to administer treatments such as oxygen, oxygen-air mixtures, humidified air or specialty medical gases
- Operate, monitor, maintain and test a variety of diagnostic and therapeutic equipment
- Perform or assist with interventions such as airway maintenance, line insertions, inductions and intubations, and manage patients and associated equipment
- Execute anesthesia assistance services
- Perform artificial respiration and external cardiac massage
- Evaluate and monitor patients' cardiorespiratory conditions
- Provide and optimize patients' mechanical ventilation
- Assist with transport of high-risk patients
- May prepare and administer authorized medications
- Supervise and train students and other respiratory therapists
- Participate in home care programs for chronic respiratory patients and provide patient and family education
- Participate in research related to cardiac and pulmonary disorders.
- Respiratory therapists may work in specific areas of practice such as anesthesia, critical care, neonatal and pediatrics, cardiopulmonary diagnostics, respiratory home and community care, research and private health industry.

Clinical perfusionists

- Assemble, maintain and operate extracorporeal circulation equipment, intra-aortic balloon pumps and other heart assist devices to support or temporarily replace patients' cardiopulmonary functions during open-heart surgery
- Administer blood products, drugs and other substances through heart-lung machines and other devices as directed by cardiac surgeons and anaesthetists to maintain adequate flow of oxygenated blood to all organs of the body
- Monitor vital signs to support and maintain patients' physiological functions and metabolic needs during cardiopulmonary surgery
- Participate in routine maintenance, calibration and inspection of all perfusion related equipment
- Supervise and train student clinical perfusionists and other clinical perfusionists.

Cardiopulmonary technologists

- Perform diagnostic tests, such as pulmonary function and asthma stress, or assist physicians with cardiac and cardiopulmonary stress tests and bronchoscopies
- Determine patients' blood characteristics such as activated clotting time and oxygen saturation
- Operate, monitor, maintain, calibrate and test diagnostic and therapeutic equipment
- Monitor patients and advise physician of any changes in patients' condition
- Prepare medications and administer inhaler and other treatments under supervision of cardiologist
- Provide information and care for patients during tests
- Assist with the preparation of cardiac catheterization room, prepare specialized catheters and assist cardiologists during catheterization
- Perform analysis, programming and monitoring of implanted devices such as pacemakers and defibrillators during surgery
- Supervise and train students and other cardiopulmonary technologists
- Provide technical support for research.

Employment requirements

- Respiratory therapists require the completion of a three-year college or university degree program in respiratory therapy, both including clinical training.
- Licensing is required for respiratory therapists in Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta.
- A national certification for respiratory therapists is available for therapists working in Prince Edward Island, British Columbia, Yukon, the Northwest Territories and Nunavut.
- In Quebec, a certificate is required for respiratory therapists to prescribe smoking cessation medication.
- Clinical perfusionists require the completion of a respiratory therapy or registered nursing program with a minimum of one year of work experience as a respiratory therapist or registered nurse and completion of a college or university program in clinical perfusion, including clinical training.
- Certification with the Canadian Society of Clinical Perfusion is required for clinical perfusionists.
- Cardiopulmonary technologists require a two-year college diploma in an allied health discipline such as respiratory therapy, nursing diploma, or a university degree in a related science and completion of a college post-diploma program in cardiovascular technology and additional training in pulmonary technology through courses or supervised on-the-job clinical training.
- Registration with the Canadian Association of Cardio-pulmonary Technologists (CACPT) may be required.

Additional information

- Supervisory and instructor positions in this unit group require experience in their respective fields as a respiratory therapist, clinical perfusionist or cardiopulmonary technologist.

32104 Animal health technologists and veterinary technicians

Animal health technologists and veterinary technicians provide technical support to veterinarians by caring for animals and assisting in the diagnosis and treatment of animal health disorders. They are employed in veterinary clinics, animal hospitals, animal shelters, humane societies, zoos, animal research laboratories, pharmaceutical companies and government. Animal health technologists and veterinary technicians who are supervisors are included in this unit group.

Illustrative example(s)

- animal health technician
- animal health technologist
- laboratory animal technician
- registered veterinary technician (RVT)
- veterinarian assistant
- veterinary technician
- veterinary technologist

Exclusion(s)

- Pet groomers and animal care workers (65220)

Main duties

This group performs some or all of the following duties:

- Provide nursing care and rehabilitation therapy for animals
- Handle, restrain and care for animals undergoing treatment and surgery
- Produce radiographs, collect and analyse samples and perform other laboratory tests to assist in diagnosis of animal health problems
- Assist veterinarian with animals before, during and following surgery by preparing surgical equipment, administering and monitoring anaesthetics and cleaning up after surgery
- Prepare and administer medications and vaccines under direction of a veterinarian
- Administer treatments as prescribed by a veterinarian
- Provide wound and bandage care
- Conduct specialized procedures such as animal identification and hoof trimming
- Educate and advise clients on animal health care including nutrition and home care
- Assist in laboratory research
- Perform routine animal dental procedures and assist veterinarians with animal dentistry
- May perform a variety of office management and clerical duties.

Employment requirements

- Completion of a two- or three-year animal health/veterinary technology college program is required.
- Successful completion of a national registration examination may be required in some employment settings.
- Registration with provincial animal health technologists' or veterinary technicians' associations is available, and is mandatory in some provinces.
- Additional information
- With experience, animal health technologists and veterinary technicians may progress to supervisory positions.

32109 Other technical occupations in therapy and assessment

Other technical workers in therapy and assessment perform various technical therapy and assessment functions. Some may assist professionals such as audiologists, speech-language pathologists, ophthalmologists, physiotherapists and occupational therapists. They are employed in hospitals, clinics, extended care facilities,

rehabilitation centres, community health centres, educational institutions, hearing aid retail stores, in the private practices of the professionals they assist, or they may be self-employed.

Illustrative example(s)

- audiology technician
- communicative disorders assistant
- hearing instrument practitioner
- hearing instrument specialist
- occupational therapy assistant
- ophthalmic technician
- ophthalmic technologist
- physical rehabilitation therapist
- physical therapist assistant (PTA)
- physiotherapy assistant
- physiotherapy technician
- rehabilitation assistant
- speech aide
- speech technician
- speech therapy assistant

Inclusion(s)

- communication disorders instructor

Exclusion(s)

- Licensed practical nurses (32101)
- Medical laboratory assistants and related technical occupations (33101)
- Medical technologists and technicians (3212)
- Opticians (32100)
- Other assisting occupations in support of health services (33109)
- Paramedical occupations (32102)
- Physiotherapists (31202)
- Practitioners of natural healing (3220)
- Respiratory therapists, clinical perfusionists and cardiopulmonary technologists (32103)

Main duties

This group performs some or all of the following duties:

Hearing instrument practitioners

- Examine adult clients to assess hearing loss using diagnostic evaluation and electro acoustic testing
- Recommend and dispense or sell appropriate type of hearing instrument
- Take earmold impressions for use in the manufacture of hearing devices
- Fit, adjust and make minor modifications to hearing instruments
- Educate clients in appropriate use, care and maintenance of hearing instruments

- Communicate with audiologist or other health care professionals regarding patients' condition
- Perform follow-up examinations and readjustments.

Communicative disorders assistants and speech-language pathology assistants

- Assist speech-language pathologists and audiologists during assessment of patients
- Carry out treatment programs, document results and develop materials for use with patients, under the supervision of speech-language pathologists or audiologists
- Document patient rehabilitation progress
- Check and maintain therapeutic equipment and materials.

Ophthalmic medical technologists and technicians

- Take patients' general medical and ophthalmic history
- Conduct specialized testing such as refractometry, ultrasonography, fluorescein angiography or ocular motility testing to aid ophthalmologists in assessing patients' vision
- Instruct patient on diagnostic test and record, interpret and troubleshoot results
- Assist ophthalmologists in performing ophthalmic procedures and surgeries
- Administer topical ophthalmic or oral medications as directed by ophthalmologists
- Prepare specimens for culture and staining
- Maintain ophthalmic instruments or equipment
- May instruct and supervise other ophthalmic staff and perform various administrative duties
- May participate in research activities.

Physical rehabilitation therapists

- Collect and analyse information from clients' file upon referral from the physiotherapist or physician
- Develop, implement and monitor treatment plans of clients in collaboration with the physiotherapist or physician
- Use a variety of therapeutic modalities such as manual techniques (e.g. massage), exercises, electrotherapy, hydrotherapy and thermotherapy (ice or heat) to achieve treatment objectives
- Advise clients on postures, lifestyle and exercises to help them improve their physical condition.

Physiotherapy assistants and occupational therapy assistants

- Under the direction of physiotherapists and/or occupational therapists, carry out treatment programs such as thermotherapy, traction, hydrotherapy and electrotherapeutic techniques to rehabilitate patients with various injuries or disabilities to maximize their ability to independently manage daily activities.

Employment requirements

- Hearing instrument practitioners require completion of a two or three-year college diploma in a hearing instrument specialist program, and a period of supervised training.
- Licensure with a regulatory body is required for hearing instrument practitioners in all provinces except in Prince Edward Island, New Brunswick, and Ontario. Ontario requires membership with the Association of Hearing Instrument Practitioners of Ontario (AHIP). Hearing instrument practitioners can prescribe and dispense hearing instruments except in Ontario where dispensing is dependent on a prescription from a physician or audiologist.
- Communicative disorders assistants and speech-language pathology assistants require completion of a three- to four-year college program.

- Ophthalmic medical technicians require completion of a one-year hospital based ophthalmic technician training program or a minimum of one year on-the-job training working as a Certified Ophthalmic Assistant under the supervision of an ophthalmologist.
- Ophthalmic medical technologists require completion of a two-year hospital-based training program in ophthalmic medical technology, or a 4 year bachelor's degree program in Ophthalmic Medical Technology or a minimum of two years of on-the-job training working as a Certified Ophthalmic technician under the supervision of an ophthalmologist.
- Certification by the Joint Commission on Allied Health Personnel in Ophthalmology may be required by employers.
- Physical rehabilitation therapists, who are only found in Quebec, require completion of a three-year physiotherapy or rehabilitation techniques college program and a period of internship.
- A permit to practice issued by the Ordre professionnel de la physiothérapie du Québec (OPPQ) is required for physical rehabilitation therapists.
- Physiotherapy assistants require completion of a two-year physical therapy assistant (PTA) college program, or a two-year rehabilitation therapy assistant program and supervised practical training.
- Occupational therapy assistants require completion of a two-year occupational therapy assistant (OTA) college program.

Additional information

- Ophthalmic medical technicians may progress to ophthalmic medical technologists' positions with training, experience and certification.
- Certified Ophthalmic Technician and Certified Ophthalmic Medical Technologist may have additional specialty certification such as Registered Ophthalmic Ultrasound Biometrist (ROUB) or Certified Diagnostic Ophthalmic Sonographer (CDOS).
- In most provinces occupational therapy assistants (OTA) and physiotherapy assistants (PTA) receive training through a single OTA/PTA program in community colleges.
- In Quebec, hearing instruments practitioners provide services to adults and children.

3211 Technical occupations in dental health care

This minor group comprises technical occupations in dental health care, including denturists; dental hygienists and dental therapists; and dental technologists and technicians. They work in private practice; and are employed by dentists' offices, hospitals, and clinics; educational institutions; governments and government agencies; dental laboratories; and in private industry.

32110 Denturists

Denturists examine patients and design, construct and repair removable dentures. Most denturists work in private practice. Apprentices are also included in this unit group.

Illustrative example(s)

- dental mechanic
- denturist
- denturologist

Exclusion(s)

- Dental assistants and dental laboratory assistants (33100)
- Dental hygienists and dental therapists (32111)

- Dental technologists and technicians (32112)
- Dentists (31110)

Main duties

This group performs some or all of the following duties:

- Measure patients' jaws to determine size and shape of dentures required
- Make impressions of patients' teeth, gums and jaws
- Design and construct dentures or direct other workers to construct dentures
- Insert, fit and modify new dentures
- Repair dentures
- Reline, rebase and adjust dentures
- Fabricate mouth protectors, anti-snoring prostheses and removable prostheses on implants
- May order radiographs
- May prepare partial dentures
- May perform denture whitening and cleaning.

Employment requirements

- Completion of a two- or three-year college program in denturism/denturology is required.
- An internship in a registered denture clinic may be required.
- Licensing by a provincial or territorial regulatory body is required.

32111 Dental hygienists and dental therapists

Dental hygienists provide dental hygiene treatment and services related to oral health promotion and disease and mouth injury prevention. They are employed in a variety of settings including dentists' offices, hospitals, private clinics, educational institutions, public health agencies or they may be self-employed. Dental therapists provide limited restorative dental treatment in addition to dental hygiene services. They are employed by the federal government and the provincial governments to provide services in rural and remote communities.

Illustrative example(s)

- dental hygienist
- dental nurse
- dental therapist
- registered dental hygienist

Exclusion(s)

- Dental assistants and dental laboratory assistants (33100)
- Dental technologists and technicians (32112)
- Dentists (31110)
- Denturists (32110)

Main duties

This group performs some or all of the following duties:

Dental hygienists

- Conduct patient screening and oral health assessments, including taking vital signs and documenting patient medical and health history
- Take dental impressions
- Take and develop X-rays
- Perform preventative dental procedures such as teeth cleaning, scaling, gum stimulation and fluoride and sealant applications
- Provide oral care instructions such as oral hygiene procedures, strategies to maintain and improve oral health and on the impact of nutrition on oral health
- Consult with dentists on patient care
- May perform restorative and orthodontic procedures under the direction of a dentist
- May supervise dental assistants in their health care functions
- May participate in community- or school-based oral health initiatives such as oral screening.

Dental therapists

- Perform routine dental check-ups, oral cancer examinations and emergency dental examinations
- Take dental impressions
- Take and develop X-rays
- Perform preventative dental procedures such as teeth cleaning, gum stimulation and fluoride and sealant applications
- Provide oral care instructions such as oral hygiene procedures, strategies to maintain and improve oral health and on the impact of nutrition on oral health
- Perform routine teeth restorations and uncomplicated extractions and provide post extraction oral care instructions
- Refer patients to other dental professionals for care beyond the scope of the dental therapist
- Provide oral health promotion activities
- May supervise dental assistants in their health care functions.

Employment requirements

- Completion of a two- to three-year college dental hygiene program, approved by the governing board within the province or territory of residence, is usually required for dental hygienists.
- Dental therapists are required to complete a two- to three- year college diploma from an approved dental institution program.
- Licensing by the appropriate provincial or territorial regulatory body is required for dental hygienists.
- Licensure is required for dental therapists in Saskatchewan, the Yukon, the Northwest Territories and Nunavut.

32112 Dental technologists and technicians

Dental technologists and technicians design, prepare and fabricate dentures and dental devices as prescribed by dentists and other specialists. They are employed in dental laboratories. Dental technologists and technicians who are supervisors are included in this unit group.

Illustrative example(s)

- dental technician
- dental technician supervisor
- dental technologist
- registered dental technician (RDT)
- registered dental technologist (RDT)

Exclusion(s)

- Dental assistants and dental laboratory assistants (33100)
- Dental hygienists and dental therapists (32111)
- Denturists (32110)

Main duties

This group performs some or all of the following duties:

- Design, fabricate, modify or repair dental devices including full or partial dentures, orthodontic appliances, crowns, bridges, inlays, onlays, clasps and bands, and implants
- Ensure proper handling and control of hazardous materials, and adhere to laboratory infection control procedures as required
- May consult with dentists or other specialists on problematic dental cases
- May train and supervise other dental technicians and dental laboratory assistants in fabricating dentures and other dental devices
- May conduct research in the science, techniques and practice of dental technology
- May perform administrative functions for the dental laboratory.

Employment requirements

- Dental technologists and technicians are required to complete a college program in dental technology or four or more years of on-the-job training under the supervision of a registered dental technologist or technician.
- Registration with a regulatory body is required for dental technologists and technicians in all provinces except in Manitoba and the territories.

3212 Medical technologists and technicians

This minor group comprises medical technologists and technicians, including medical laboratory technologists; medical radiation technologists; medical sonographers; cardiology technologists and electrophysiological diagnostic technologists; pharmacy technicians; and other medical technologists and technicians. They are employed by medical, radiological, and animal research laboratories; hospitals, clinics, extended and long-term care facilities, nursing homes, and public health and cancer treatment centres; respiratory home care, and pharmaceutical companies; retail and hospital pharmacies; pharmaceutical and prosthetic device manufacturers; custom ocular prosthetic, prosthetics, and orthotics laboratories; fast food outlets, cafeterias, schools, and health care and commercial food service establishments; animal hospitals, veterinary clinics, animal shelters, and zoos; colleges and universities, research facilities, and government, or they may be self-employed.

32120 Medical laboratory technologists

Medical laboratory technologists conduct medical laboratory tests, experiments and analyses to assist in the diagnosis, treatment, monitoring and prevention of disease. They are employed in medical laboratories

in hospitals, blood banks, community and private clinics, research facilities and post-secondary educational institutions. Medical laboratory technologists who are supervisors are included in this unit group.

Illustrative example(s)

- clinical genetics technologist
- cytogenetics technologist - medical laboratory
- histology technologist
- medical laboratory cytotechnologist
- medical laboratory technologist
- medical laboratory technologists supervisor

Exclusion(s)

- Biological technologists and technicians (22110)
- Chemical technologists and technicians (22100)
- Medical laboratory assistants and related technical occupations (33101)

Main duties

This group performs some or all of the following duties:

- Set up, operate and maintain laboratory equipment
- Conduct and interpret chemical analyses of blood, urine, and cerebrospinal and other body fluids
- Study blood cells and other tissues to determine their relation to various physiological and pathological conditions
- Prepare tissue sections for microscopic examinations using techniques to demonstrate special cellular tissue elements or other characteristics
- Perform and interpret blood group, type and compatibility tests for transfusion purposes
- Validate, document and report test results
- Establish procedures for the analysis of specimens and for medical laboratory experiments
- Conduct quality control assessment of testing techniques
- May supervise and train other medical laboratory technical staff, students and helpers
- May assist pathologists during autopsies.

Medical laboratory technologists may specialize in areas such as clinical chemistry, clinical microbiology, hematology, histotechnology, transfusion medicine or immunohematology, cytotechnology, cytogenetics and molecular genetics.

Employment requirements

- A two- or three-year college program in medical laboratory technology is required and a period of supervised practical training may be required.
- Registration with a regulatory body is required in Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, and Alberta.
- Certification by the Canadian Society for Medical Laboratory Science is usually required by employers.
- Combined laboratory and X-ray technicians require completion of a combined laboratory X-ray technology program.
- Some employers may require a university science degree for specialized medical laboratory technologists.

Additional information

- In Quebec medical laboratory technologists are referred to as les technologistes médicaux and are regulated by l'Ordre professionnel des technologistes médicaux du Québec (OPTMQ).

32121 Medical radiation technologists

Medical radiation technologists operate radiographic and radiation therapy equipment to administer radiation treatment and produce images of body structures for the diagnosis and treatment of injury and disease. They are employed in hospitals, cancer treatment centres, clinics, radiological laboratories, colleges and universities. Medical radiation technologists who are supervisors or instructors are included in this unit group.

Illustrative example(s)

- mammography technician
- nuclear medicine clinical instructor
- nuclear medicine technologist
- nuclear medicine technologists supervisor
- radiation oncology technologist
- radiation therapist
- radiation therapy clinical instructor
- radiation therapy technologist (RTT)
- radiography technologist
- radiological technologist
- radiotherapy technician
- X-ray (radiology) technician

Inclusion(s)

- diagnostic imaging technologist
- magnetic resonance imaging (MRI) technologist

Exclusion(s)

- Animal health technologists and veterinary technicians (32104)
- Cardiology technologists and electrophysiological diagnostic technologists (32123)
- Medical laboratory technologists (32120)
- Medical sonographers (32122)
- Other medical technologists and technicians (32129)
- Pharmacy technicians (32124)
- Respiratory therapists, clinical perfusionists and cardiopulmonary technologists (32103)

Main duties

This group performs some or all of the following duties:

Radiological technologists

- Operate X-ray, radiographic and fluoroscopic equipment, computerized tomography (CT) scanners, mammography units and magnetic resonance imaging (MRI) scanners to produce radiographs or anatomic images of the human body for the diagnosis by radiologists of disease or injury

- Record and process patient data
- Perform basic verification and quality control checks on radiographic and film processing equipment
- Provide appropriate care and monitoring of the patient during the radiographic examination
- Explain procedures, position patient and equipment and apply radiation protection measures
- May train and supervise student radiographers or supervise other radiological technologists.

Radiological technologists may specialize in areas such as computerized tomography, angiography, mammography, magnetic resonance imaging, interventional radiology, dosimetry, stereotaxy or brachytherapy.

Nuclear medicine technologists

- Prepare and administer radiopharmaceuticals, such as radionuclides and other tracer materials to patients or to biological samples
- Operate radiation detection equipment, such as gamma cameras, scanners, scintillation counters, tomodesintometers and ionization chambers, to acquire data for use by nuclear medicine physicians in the diagnosis of disease
- Perform diagnostic procedures using radioactive materials on biological specimens, such as blood, urine and faeces
- Record and process results of procedures
- Check equipment to ensure proper operation
- Provide appropriate care and monitoring of the patient during the examination
- Apply radiation protection measures
- May train and supervise student nuclear medicine technologists or supervise other nuclear medicine technologists.

Radiation therapists

- Operate linear accelerators, cobalt 60, X-ray and other radiation therapy equipment to administer radiation treatment prescribed by radiation oncologists
- Check radiation therapy equipment to ensure proper operation
- Assist radiation oncologists and clinical physicists with preparation of radiation treatment plan
- Assist in the preparation of sealed radioactive materials such as cobalt, radium, cesium and isotopes and the construction of devices such as plaster casts and acrylic moulds to assist with administration of radiation treatment
- Provide appropriate care and monitoring of the patient's physical and psychological well-being during the entire course of treatment
- Explain procedures and side effects of radiation
- May train and supervise student radiotherapy technologists or supervise other radiotherapy technologists.

Employment requirements

- Completion of a two- to three-year college, hospital or other approved program in diagnostic radiography or magnetic resonance imaging (for radiological technologists and magnetic resonance technologists), nuclear medicine technology (for nuclear medicine technologists) or radiation therapy (for radiation therapists) or
A bachelor of health sciences in radiography, nuclear medicine or radiation therapy
and
A period of supervised practical training are required.
- Licensure with a regulatory body is required in Nova Scotia, New Brunswick, Quebec, Ontario, Saskatchewan and Alberta.

- Membership with a provincial association is required in Newfoundland and Labrador, Prince Edward Island and Manitoba.
- Certification by the Canadian Association of Medical Radiation Technologists is required in all provinces except Quebec and British Columbia.

Additional information

- There is no mobility between the three types of medical radiation technologists without further training.
- Experience as a medical radiation technologist is required for supervisors and instructors.

32122 Medical sonographers

Medical sonographers operate ultrasound equipment to produce and record images of various parts of the body to aid physicians in monitoring pregnancies and in diagnosing cardiac, ophthalmic, vascular and other medical disorders. They are employed in clinics and hospitals. Medical sonographers who are supervisors or instructors are included in this unit group.

Illustrative example(s)

- diagnostic medical sonography instructor
- medical sonographer
- medical sonographers supervisor
- registered diagnostic medical sonographer (RDMS)
- ultrasound technologist

Exclusion(s)

- Medical radiation technologists (32121)

Main duties

This group performs some or all of the following duties:

- Operate ultrasound imaging equipment that transmits high frequency sound pulses through the body to produce images of those parts of the body requiring examination
- Monitor examination by viewing images on video screen, to evaluate quality and consistency of diagnostic images, and make adjustments to equipment, as required
- Record, store and process scanned images by using camera unit connected to ultrasound equipment
- Observe and care for patients throughout examinations to ensure patient safety and comfort
- Prepare examination reports for physicians to aid in the monitoring of pregnancies and the diagnosis of cardiac, abdominal, ophthalmic, vascular and other disorders
- Perform quality control checks on ultrasound equipment to ensure proper operation and perform minor repairs and adjustments as required
- May supervise and train students and other medical sonographers.

Medical sonographers may specialize in abdominal, cardiac, cerebral, obstetrical and gynaecological, ophthalmic, intraluminal or peripheral vascular sonography. They may also specialize in adult or pediatric echocardiography or neurosonology.

Employment requirements

- Completion of a three- to four-year program in diagnostic medical sonography or ultrasound technology or completion of a two- to three-year program in a related allied health field and a one-year post-diploma program in diagnostic medical sonography from an accredited institution are required.
- Registration with Sonography Canada and/or the American Registry of Diagnostic Medical Sonographers is usually required by employers.
- Registration with l'Ordre des technologues en imagerie médicale, en radio-oncologie et en électrophysiologie médicale du Québec is required in Quebec.
- Registration with the College of Medical Radiation Technologists of Ontario (CMRTO) is required in Ontario.

Additional information

- Membership in the Canadian Society of Diagnostic Medical Sonographers is available but voluntary.

32123 Cardiology technologists and electrophysiological diagnostic technologists

Cardiology technologists operate electrocardiogram equipment and use medical imaging technologies to record cardiac activity of patients to aid in the diagnosis, monitoring and treatment of heart disease. Electrophysiological diagnostic technologists operate electroencephalographic, electromyographic and other electrophysiological diagnostic equipment to assist physicians in diagnosing diseases, injuries and abnormalities. Cardiology technologists and electrophysiological diagnostic technologists who are supervisors or instructors are included in this unit group. They are employed in clinics, hospitals and medical laboratories.

Illustrative example(s)

- cardiac stress technologist
- cardiology supervisor
- cardiology technologist
- electrocardiographic (ECG) technologist
- electrocardiography technologist
- electroencephalograph (EEG) technologist
- electromyography (EMG) technologist
- electroneurodiagnostic (END) technologist
- electroneurophysiology (ENP) technologist

Inclusion(s)

- cardiac catheterization technologist
- cardiovascular technician
- cardiovascular technologist

Exclusion(s)

- Cardiology nurse technician (See 31301-Registered nurses and registered psychiatric nurses)
- Cardiovascular perfusionist (See 32103-Respiratory therapists, clinical perfusionists and cardiopulmonary technologists)

Main duties

This group performs some or all of the following duties:

Cardiology technologists

- Operate electrocardiogram and other electronic equipment to record cardiac activity of patients
- Perform non-invasive cardiovascular procedures and tests, such as electrocardiograms, exercise tolerance tests, ambulatory monitoring and scanning of tapes, holter arrhythmia scanning, pacemaker analysis and follow-up
- Record and assess cardiac activity and provide preliminary reports of tests
- Provide patients with care during procedures and tests
- Prepare reports for interpretation by cardiologists
- Reprogram pacemakers according to required standards
- Check, calibrate and perform routine maintenance of cardiology equipment to ensure proper operation
- May analyze tests and notify physician or other health care professionals of abnormalities
- May administer certain drugs under direct supervision of physician
- May document and record pacemaker implant threshold measurements under direct supervision of cardiac surgeon
- May supervise and train students, other cardiology technologists and nurses.

Electrophysiological technologists

- Review patient's case history and assess nature of problem to determine procedures and tests required
- Attach diagnostic equipment to patients and ensure their comfort and safety
- Operate diagnostic equipment such as electroencephalographic and evoked potential equipment to record the electrical activity of the brain and cranial and central nervous systems
- Operate electromyographic equipment to conduct electrophysiological nerve conduction velocity tests and to assist physicians in conducting electrophysiological tests such as muscle strength and repetitive stimulation
- Take notes on the recorded graph to identify interference such as poor electrode contact or patient movement
- Prepare recordings and reports of findings for physicians to aid in the diagnosis of neurological disorders
- Check, calibrate and perform routine maintenance of diagnostic equipment
- Train and supervise students, technicians or other electroencephalograph technologists.

Employment requirements

- Cardiology technologists require completion of a two-year college diploma program in cardiology technology and Supervised practical training.
- Cardiology technologists require registration with the Canadian Society of Cardiology Technologists in all provinces except Quebec.
- Electroencephalograph and other diagnostic technologists require completion of a two-year college or hospital-based program in electrophysiology technology and Supervised practical training.
- Registration with the Canadian Board of Electroencephalograph Technologists is available for electroencephalograph technologists; it is required in Alberta and is usually required by employers in other provinces.

- Registration with the Association of Electromyography Technologists of Canada is available for electromyography technologists and is usually required by employers.
- Registration with l'Ordre des technologues en imagerie médicale, en radio-oncologie et en électrophysiologie médicale du Québec is required for cardiology technologists and electrophysiological technologists in Quebec.

32124 Pharmacy technicians

Pharmacy technicians perform technical functions relating to prescriptions including gathering patients' information, product preparation, product distribution and inventory control. They work closely with pharmacists to provide pharmaceutical care to clients. Pharmacy technicians are employed in retail and hospital pharmacies, long-term care facilities and by pharmaceutical manufacturers. Pharmacy technicians who are supervisors are included in this unit group.

Illustrative example(s)

- pharmacy technician
- pharmacy technician supervisor

Exclusion(s)

- Pharmacy clerk (See 64100-Retail salespersons and visual merchandisers)
- Pharmacy technical assistants and pharmacy assistants (33103)

Main duties

This group performs some or all of the following duties:

- Assist pharmacists to maintain inventories of medications and prescription records of pharmaceutical products
- Assess prescriptions for completeness and ensure information is accurate
- Gather and enter client information in databases and prepare medications for clients in collaboration with pharmacists
- Compound pharmaceutical products such as intravenous injections, oral solutions, ointments and creams
- Process payment of prescriptions and other pharmacy services including direct billing to third party insurers
- Provide instructions on how to use health aids, and medical devices such as drug administration devices and monitoring devices
- May help with scheduling and workflow.

Employment requirements

- Pharmacy technicians usually require a two-year pharmacy technician college program or completion of a two- to three-year college program in pharmaceuticals and supervised practical training.
- Completion of the Pharmacy Examining Board of Canada (PEBC) certification exams is required for pharmacy technicians.
- Registration with a regulatory body is required for pharmacy technicians in all provinces except Quebec.

Additional information

- Pharmacy technicians may progress to supervisory positions with experience.

32129 Other medical technologists and technicians

Other medical technologists and technicians includes medical technologists and technicians, such as dietary technicians, ocularists, prosthetists, orthotists, prosthetic technicians and orthotic technicians. Dietary technicians are employed in health care and commercial food service establishments such as hospitals, extended care facilities, nursing homes, schools, cafeterias and fast food outlets. Ocularists are employed in custom ocular prosthetic laboratories, or they may be self-employed. Prosthetists, orthotists and prosthetic and orthotic technicians are employed in hospitals, clinics, prosthetics and orthotics laboratories, and prosthetic device manufacturing companies. Prosthetists and orthotists may also be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- dietary technician
- food and nutrition technician - dietetics
- ocularist
- ocularist technician
- orthotic technician
- orthotist
- prosthetic technician
- prosthetist

Exclusion(s)

- Animal health technologists and veterinary technicians (32104)
- Cardiology technologists and electrophysiological diagnostic technologists (32123)
- Medical laboratory assistants and related technical occupations (33101)
- Medical laboratory technologists (32120)
- Medical radiation technologists (32121)
- Medical sonographers (32122)
- Other technical occupations in therapy and assessment (32109)
- Pharmacy technicians (32124)
- Respiratory therapists, clinical perfusionists and cardiopulmonary technologists (32103)

Main duties

This group performs some or all of the following duties:

Dietary technicians

- Assist dietitians or nutritionists to plan and supervise food service operations
- Plan menus and diet for individuals or groups under the direction of a dietitian or nutritionist
- Assist in the supervision of personnel who prepare and serve food
- Help patients select menu items
- Assist dietitians with research in food, nutrition and food service systems.

Ocularists

- Design, fabricate and fit ocular prostheses and conformers, and may design and fabricate implants
- Paint the iris and pupil of artificial eyes
- Clean and restore ocular prostheses

- Advise patients concerning the loss of depth perception and the care and use of ocular prostheses
- Repair and maintain fabrication and laboratory equipment
- Consult with ophthalmologists concerning insertion of ocular prostheses.

Prosthetists and orthotists

- Design, fabricate and fit prosthetic and orthotic appliances such as artificial limbs, braces or supports
- Interpret physicians' specifications and examine and measure patients to develop working sketches of appliances
- Make and modify plaster casts of areas to receive prostheses or orthoses
- Fit, adjust and repair appliances
- Advise patients in the use and care of prostheses and orthoses
- Supervise and direct the activities of prosthetic and orthotic technicians.

Prosthetic and orthotic technicians

- Assemble or build prosthetic and orthotic appliances according to drawings, measurements and plaster casts using a variety of materials such as metals, plastics and leathers
- Repair, rebuild and modify prosthetic and orthotic appliances or orthopaedic footwear
- May take the body or limb measurements of patients.

Employment requirements

- Dietary technicians require completion of a two- to three-year college program in dietary technology and supervised practical training.
- Ocularists require completion of the education program of the American Society of Ocularists and supervised practical training or a five-year supervised practical training program under a certified ocularist.
- Certification by the National Examining Board of Ocularists is usually required.
- Prosthetists and orthotists require a two-year college program in prosthetics and orthotics technology and three years of supervised practical training.
- Certification by the Canadian Board of Certification of Prosthetists and Orthotists (CBCPO) may be required.
- Prosthetic and orthotic technicians usually require a two- to three- year college program in prosthetics and orthotics and one to two years of supervised practical training or completion of secondary school and up to four years of supervised practical training under a certified prosthetist or orthotist.
- Registration with the Canadian Association of Prosthetists and Orthotists (CAPO) may be required.

Additional information

- Prosthetic and orthotic technicians may become certified prosthetists or orthotists with an additional two years of experience as a registered prosthetic or orthotic technician and completion of certification examinations by the Canadian Board of Certification of Prosthetists and Orthotists.

322 Practitioners of natural healing

This sub-major group comprises practitioners of natural healing, including traditional Chinese medicine practitioners and acupuncturists, massage therapists, and other practitioners of natural healing.

3220 Practitioners of natural healing

This minor group comprises practitioners of natural healing, including traditional Chinese medicine practitioners and acupuncturists, massage therapists, and other practitioners of natural healing. They work in private

practice, and in the private practices of the professionals they assist; and are employed by optical retail outlets, and optical dispensing departments; clinics, hospitals, nursing homes, extended care facilities, and rehabilitation and community health centres; health clubs, spas, and private homes; government departments and agencies; and educational institutions.

32200 Traditional Chinese medicine practitioners and acupuncturists

Traditional Chinese medicine practitioners and acupuncturists assess, treat and prevent diseases, conditions, disorders or imbalances of patients' using various forms of treatment including acupuncture, herbology or other holistic health approaches. They usually work in private practice, including group or team practices, clinics, extended care facilities, rehabilitation centres and health clubs.

Illustrative example(s)

- acupuncturist
- traditional Chinese medicine practitioner

Exclusion(s)

- Chiropractors (31201)
- Doctor of osteopathic medicine (See 31209-Other professional occupations in health diagnosing and treating)
- Massage therapists (32201)
- Midwife (See 31303-Physician assistants, midwives and allied health professionals)
- Naturopathic physician (See 31209-Other professional occupations in health diagnosing and treating)
- Other practitioners of natural healing (32209)
- Physiotherapists (31202)

Main duties

This group performs some or all of the following duties:

Traditional Chinese medicine practitioners

- Diagnose within the framework of Traditional Chinese Medicine the diseases, physiological disorders and injuries of patients
- Explain procedures, risks and benefits of treatments to patients
- Prescribe and administer treatment such as acupuncture, electro-acupuncture, Transcutaneous Electrical Nerve Stimulation (TENS), scraping (Gua Sha), cupping therapy, moxibustion, acupressure, and auriculotherapy
- May prescribe and administer Chinese manipulative therapy (Tui Na), energy control therapy (Qi Gong) and laser therapy
- May suggest home care instructions and provide information about life therapies including energy control therapy (Qi Gong), Chinese shadow boxing (Tai Ji Quan) and Chinese food cure recipes (Shi Liao)
- Maintain patient records
- Prescribe and administer treatment using raw or granule herbs and other medicines or dietary supplements
- May collaborate with other health care professionals such as physiotherapists, chiropractors, physicians and psychologists when developing treatment plans for patients.

Acupuncturists

- Diagnose symptoms, imbalances, physiological disorders and injuries of patients according to Chinese medicine traditions

- Educate patients on risks and benefits of treatments
- Develop and implement treatment plans including acupuncture acupressure, moxibustion, cupping, scraping or electrical current
- Evaluate and document patients' progress
- May provide dietary and lifestyle advice including information on life therapies such as energy control therapy (Qi Gong)
- May develop treatment plans in collaboration with other health care professionals.

Employment requirements

- Traditional Chinese medicine practitioners usually require completion of a four- to five-year diploma program in traditional Chinese medicine from a private institute or completion of a program in traditional Chinese medicine from recognized medical schools abroad.
- Registration with a regulatory body is required for traditional Chinese medicine practitioners in Ontario and British Columbia, which includes completion of an approved registration examination.
- Acupuncturists usually require completion of a three- to four-year diploma program in acupuncture from a private institute or completion of some university undergraduate studies in science and training in a related health care discipline or work experience under the supervision of a registered acupuncturist.
- Registration with a regulatory body is required for acupuncturists in Newfoundland and Labrador, Quebec, Ontario, Alberta and British Columbia, which includes completion of an approved registration examination.

32201 Massage therapists

Massage therapists assess soft tissues and joints of the body for treatment and prevention of dysfunction, injury, pain and physical disorders. They work in private practice, including group or team practices, hospitals, clinics, extended care facilities, rehabilitation centres and educational institutions.

Illustrative example(s)

- massage therapist (MT)
- registered massage practitioner
- registered massage therapist (RMT)

Exclusion(s)

- Medical technologists and technicians (3212)
- Other practitioners of natural healing (32209)
- Physiotherapy assistant (See 32109-Other technical occupations in therapy and assessment)
- Technical occupations in therapy and assessment (3210)
- Traditional Chinese medicine practitioners and acupuncturists (32200)

Main duties

This group performs some or all of the following duties:

- Assess clients by conducting range of motion and muscle tests and propose treatment plans
- Explain procedures, risks and benefits to clients
- Administer massage techniques, treating soft tissues and joints of the body through soft tissue manipulation, relaxation techniques, hydrotherapy, trigger point therapy, joint pain and lower grade mobilizations, remedial exercise programs and client self-help programs

- Suggest home care instructions and provide information about techniques for further postural improvement and stretching, strengthening, relaxation and rehabilitative exercises
- Maintain records of treatments given
- May consult with other health care professionals such as physiotherapists, chiropractors, physicians and psychologists when developing treatment plans for clients.

Massage therapists may be trained in various specialized massage techniques.

Employment requirements

- Massage therapists usually require completion of an 18- to 24-month or 18- to 36-month program in massage therapy from an accredited school and
A period of supervised practical training.
- Registration with a regulatory body is required in Newfoundland and Labrador, Ontario and British Columbia.

32209 Other practitioners of natural healing

Practitioners of natural healing provide health care to patients using various forms of treatment including herbology, reflexology or relaxation techniques to promote, maintain and restore the holistic health of patients. They usually work in private practice, including group or team practices, or are employed by clinics, health clubs and spas.

Illustrative example(s)

- aromatherapist
- ayurvedic practitioner
- herbalist
- holistic nutritionist
- holistic practitioner
- homeopath
- hypnotherapist
- naturotherapist
- osteopathic manual practitioner
- reflexologist
- rolfers

Exclusion(s)

- Dietitians and nutritionists (31121)
- Doctor of osteopathic medicine (See 31209-Other professional occupations in health diagnosing and treating)
- Manual arts therapist (See 32109-Other technical occupations in therapy and assessment)
- Massage therapists (32201)
- Midwife (See 31303-Physician assistants, midwives and allied health professionals)
- Naturopathic physician (See 31209-Other professional occupations in health diagnosing and treating)
- Traditional Chinese medicine practitioners and acupuncturists (32200)

Main duties

This group performs some or all of the following duties:

Herbalists

- Assess patients and advise them on the use of herbs for the treatment of conditions such as arthritis, rheumatism, asthma, skin disorders and stomach ailments
- May cultivate herbs and manufacture and sell herbal compounds.

Osteopathic manual practitioners

- Assess, treat and manage musculoskeletal and other related disorders of the body's structure by moving, stretching, and massaging a patients' muscles and joints to correct biomechanical dysfunctions.

Homeopaths

- Assess illnesses and treat them by administering, in chemical or herbal form, a small dosage of a remedy made from natural substances or by suggesting lifestyle changes.

Reflexologists

- Assess clients' physical, mental and emotional health
- Provide advice and feedback to support clients' wellbeing
- Apply gentle pressure with thumb and fingers to stimulate specific reflex points or areas, usually on the clients' feet, hands, ears and/or face to relieve tension, improve circulation, and promote better health and well-being.

Holistic nutritionists

- Evaluate the overall health and wellness of clients and recommend nutritional and life style adjustments to address their health issues and to support health goals.

Naturopaths

- Assess and treat illness and injury through the use of holistic approaches such as herbal remedies, massage, as well as counselling in nutrition and exercise.

Employment requirements

- Homeopaths usually require completion of a three-year diploma program in homeopathy.
- Registration with a regulatory body is required for homeopaths in Ontario.
- Other occupations in this unit group usually require completion of training programs specific to their type of practice and some supervised practical training.

33 Assisting occupations in support of health services

This major group comprises assisting occupations in support of health services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

331 Assisting occupations in support of health services

This sub-major group comprises assisting occupations in support of health services, including dental assistants and dental laboratory assistants; medical laboratory assistants and related technical occupations; nurse aides, orderlies and patient service associates; pharmacy technical assistants and pharmacy assistants; and other assisting occupations in support of health services.

3310 Assisting occupations in support of health services

This minor group comprises assisting occupations in support of health services, including dental assistants and dental laboratory assistants; medical laboratory assistants and related technical occupations; nurse aides, orderlies and patient service associates; pharmacy technical assistants and pharmacy assistants; and other assisting occupations in support of health services. They are employed by hospitals, clinics, community health centres, nursing homes, assisted care facilities, and other health care establishments; dentists' offices, and the offices of other health care professionals; pharmacies, and optical retail stores; optical and medical pathology laboratories; and educational institutions.

33100 Dental assistants and dental laboratory assistants

Dental assistants assist dentists, dental hygienists and dental therapists during the examination and treatment of patients and perform clerical functions. Dental laboratory assistants assist dental technologists and technicians in preparing and fabricating dentures and other dental devices. Dental assistants work in dentists' offices, community health centres, clinics and in educational institutions. Dental laboratory assistants are employed in dental laboratories.

Illustrative example(s)

- ceramic denture moulder
- certified dental assistant
- certified intra-oral dental assistant
- dental assistant
- dental laboratory assistant
- denture finisher
- denture wax pattern former
- orthodontic band maker
- registered dental assistant

Inclusion(s)

- dental aide

Exclusion(s)

- Dental hygienists and dental therapists (32111)
- Dental technologists and technicians (32112)

Main duties

This group performs some or all of the following duties:

Dental assistants

- Prepare patients for dental examination and assist the dentist during examinations and dental treatments
- Sterilize and maintain instruments and equipment

- Prepare dental instruments, fillings compound and various dental materials
- Take and develop X-rays
- Polish teeth and clinical crowns and apply fluoride and sealant
- Take preliminary impressions for diagnostic casts
- Educate patients concerning oral hygiene
- Perform clerical duties such as prepare invoices, process payments, schedule patient appointments, record dental procedures performed and order dental and office supplies
- May perform intra-oral duties such as remove sutures, take and record vital signs, apply desensitizing agents, topical anaesthetic, anticariogenic agents and coronal whitening, fabricate, place, and remove temporary crowns and restorations, and apply and remove rubber dams
- May also perform pulp vitality testing as well as periodontal screening and recording.

Dental laboratory assistants

- Prepare plaster models and moulds from dental impressions
- Prepare wax bite-blocks and impression trays
- Cast gold or metal alloys for bridges and denture bases
- Pack plastic material in moulds to form full or partial dentures
- Mould wax over denture set-up to form full contours of artificial gums
- Make orthodontic bands from gold, silver, stainless steel or other metals
- Finish metal framework of dentures and polish and buff dentures to obtain natural finish.

Employment requirements

- Dental assistants require completion of an eight-month to one-year college or other program in dental assistance or completion of secondary school with on-the-job training.
- Registration with a regulatory body is required in all provinces except Quebec and Ontario.
- Certification by the National Dental Assisting Examination Board is required to perform intra-oral duties in all provinces except in Quebec, where intra-oral duties are not performed by dental assistants.
- Dental laboratory assistants usually require secondary school and up to two years of on-the-job training.

Additional information

- In some provinces there are two levels of dental assistants: Level I - chair-side assistant and Level II - intra-oral assistant. Progression from Level I to Level II is possible with education, training and licensure.
- Dental laboratory assistants may progress to dental technologist and technician positions with training, experience and registration.

33101 Medical laboratory assistants and related technical occupations

Medical laboratory assistants and workers in related technical occupations perform pre-analysis and pre-testing tasks such as collecting blood and other samples, processing specimens, and preparing special chemicals called reagents for use in testing. They conduct routine medical laboratory tests and set up, clean and maintain medical laboratory equipment. They are employed in medical laboratories in hospitals, clinics, research facilities, post-secondary educational institutions and government research laboratories.

Illustrative example(s)

- medical laboratory aide
- medical laboratory assistant

- medical laboratory technician
- phlebotomist
- phlebotomy aide

Inclusion(s)

- blood bank technician
- renal technician

Exclusion(s)

- Biological technologists and technicians (22110)
- Chemical technologists and technicians (22100)
- Medical laboratory technologists (32120)

Main duties

This group performs some or all of the following duties:

- Collect, label, sort and prepare blood, tissue and other samples from patients
- Log and validate patient samples and prepare them for testing
- Set up medical laboratory equipment
- Prepare chemical reagents to be combined with biological samples for testing
- Conduct routine laboratory tests and sample analyses
- Perform quality assurance of testing techniques and record results
- Clean and maintain medical laboratory and medical laboratory equipment.

Employment requirements

- Medical laboratory assistants and related technical workers require completion of a college certificate program in medical laboratory science.
- Certification by the Canadian Society for Medical Laboratory Science is usually required by employers.

Additional information

- Some employers may require medical laboratory technicians to have a diploma.
- Medical laboratory technicians may progress to supervisory or technologist positions with a combination of additional education, training and experience.

33102 Nurse aides, orderlies and patient service associates

Nurse aides, orderlies and patient service associates assist nurses, hospital staff and physicians in the basic care of patients. They are employed in hospitals, nursing homes, assisted care facilities for the elderly and other health care establishments. Emergency medical care attendant are employed by private ambulance services, urgent care centers or other health facilities.

Illustrative example(s)

- health care aide
- hospital attendant
- long term care aide

- nurse aide
- nursing attendant
- orderly
- patient care aide
- patient service associate
- personal care attendant - medical
- psychiatric aide
- resident care aide - medical

Inclusion(s)

- emergency medical care attendant (non-paramedical)
- emergency medical responder (non-paramedical)
- first aid attendant
- medical attendant - patient transfer

Exclusion(s)

- Emergency medical assistant (See 32102-Paramedical occupations)
- Emergency medical attendant (See 32102-Paramedical occupations)
- Licensed practical nurses (32101)
- Other assisting occupations in support of health services (33109)
- Personal care attendant - home care (See 44101-Home support workers, caregivers and related occupations)

Main duties

This group performs some or all of the following duties:

- Answer call signals; supply and empty bed pans; bathe, dress and groom patients; serve meal trays, feed or assist in feeding of patients and assist patients with menu selection; weigh, lift, turn, and position patients; shave patients prior to operations; supervise patients' exercise routines, set up and provide leisure activities for patients, accompany patients on outside recreational activities and perform other duties related to patient care and comfort
- Take patients' blood pressure, temperature and pulse; report or record fluid intake and output; observe or monitor patients' status and document patient care on charts; collect specimens such as urine, faeces or sputum; administer suppositories, colonic irrigations and enemas and perform other procedures as directed by nursing and hospital staff
- Administer, in emergency situations, first aid to injured or ill individuals within the scope of competencies
- Transport patients by wheelchair or stretcher for treatment or surgery
- Carry messages, reports, requisitions and specimens between departments
- Make beds and maintain patients' rooms
- Maintain inventory of supplies
- May perform maintenance tasks such as assisting with the set-up and maintenance of traction equipment, cleaning or sterilizing equipment, maintaining and repairing equipment, and assembling, setting-up and operating job-related equipment
- May transport patients between care facilities.

Employment requirements

- Some secondary school education and on-the-job training or a personal support worker, nursing aide or health care aide college or private institutional program, or a college nursing orderly program and supervised practical training are required.
- Completion of specialized courses such as cardiopulmonary resuscitation (CPR) and first aid is usually required.
- An appropriate class of driver's licence may be required for medical attendants.

33103 Pharmacy technical assistants and pharmacy assistants

Pharmacy technical assistants perform technical tasks related to preparing medications under a pharmacist's supervision. They also assist in filling prescriptions and managing patient files. Pharmacy assistants perform clerical functions and assists pharmacists and pharmacy technicians with drug dispensing tasks. Pharmacy technical assistants and pharmacy assistants are employed in retail and hospital pharmacies, long-term care facilities and by pharmaceutical manufacturers.

Illustrative example(s)

- pharmacy aide
- pharmacy assistant
- pharmacy technical assistant

Exclusion(s)

- Pharmacy clerk (See 64100-Retail salespersons and visual merchandisers)
- Pharmacy technicians (32124)

Main duties

This group performs some or all of the following duties:

- Assess prescriptions for completeness
- Enter clients' information and prescription details in databases
- Help pharmacists and other pharmacy staff with preparing, packaging and labelling of pharmaceutical products
- Assist in maintaining inventories of medications and pharmaceutical products
- Compound oral solutions, ointments and creams
- May process medical billing information
- May price and stock items on shelves.

Employment requirements

- Pharmacy technical assistants usually require completion of up to two-years of a Pharmacy Technical Assistance vocational program.
- Pharmacy assistants usually require completion of a Pharmacy Assistant college program, ranging from six to twelve months or completion of secondary school and several months of on-the-job training.

33109 Other assisting occupations in support of health services

Other assisting workers in support of health services provide services and assistance to health care professionals and other health care staff. They are employed in hospitals, medical clinics, offices of health care professionals, nursing homes, optical retail stores and laboratories, and medical pathology laboratories.

Illustrative example(s)

- audiometric assistant
- audiometric technician
- autopsy assistant
- blood donor clinic assistant
- cast room technician
- chiropractic assistant
- clinical laboratory helper
- medical device reprocessing technician
- morgue attendant
- ophthalmic assistant
- ophthalmic laboratory technician - retail
- ophthalmic lens grinder
- ophthalmologist assistant
- optical laboratory assistant
- optometrist assistant
- orthopedic technologist
- rehabilitation aide
- therapy aide

Exclusion(s)

- Medical laboratory assistants and related technical occupations (33101)
- Medical technologists and technicians (3212)
- Operating room technician (See 32101-Licensed practical nurses)
- Other technical occupations in therapy and assessment (32109)
- Pathologists' assistant (See 31303-Physician assistants, midwives and allied health professionals)

Main duties

This group performs some or all of the following duties:

Audiometric technicians

- Under the supervision of audiologists, administer tests such as pure tone hearing screening, impedance tests and noise level measurements using equipment such as audiometers and sound level meters to determine hearing thresholds of patients
- Instruct patients on test procedures and record results
- Monitor, check and calibrate auditory equipment
- May take earmold impressions and fit and adjust hearing instruments.

Orthopedic technologists

- Assist orthopedic surgeons in the treatment of orthopedic diseases and injuries by applying and adjusting casts, splints, bandages and other orthopedic devices
- Assist in the application, maintenance and adjustment of traction equipment
- Clean and dress wounds

- Remove casts, sutures, staples and pins
- Instruct patients and their families and other health care professionals with respect to orthopedic matters.

Rehabilitation aides

- Prepare and maintain equipment and supplies
- Assist in activities for the rehabilitation of patients as directed by health care professionals
- May perform routine office functions.

Ophthalmic assistants

- Take patients' general medical and ophthalmic history
- Operate ophthalmic testing and measuring instruments to aid ophthalmologists in assessing patients' vision
- Instruct patient on diagnostic test and record results
- Assist ophthalmologists in minor office surgery
- Administer eye drops, ointments and medications as directed by ophthalmologists
- Clean and maintain ophthalmic instruments and equipment
- Perform various administrative duties.

Optical/ophthalmic laboratory technicians and assistants

- Operate laboratory equipment to grind, cut, polish and edge lenses for eyeglasses according to prescriptions received and fit lenses into frames
- Make minor repairs for customers such as replacing frame screws or straightening frames
- Maintain and repair optical laboratory equipment or machinery.

Sterile processing technicians

- Operate and maintain sterilization equipment such as instrument washers, sonic sinks, cart washers and steam autoclaves to clean and disinfect trays, carts, linens, supplies, instrumentation and equipment for re-use according to standardized safety practices
- Reassemble equipment and assemble packs of sterile supplies and instruments for delivery to hospital departments.

Blood donor clinic assistants

- Set up and dismantle equipment
- Prepare and maintain cleanliness of collection areas
- Maintain supplies
- Monitor donors throughout procedure and assist with post-donation care and donor reaction care as assigned under the supervision of a registered nurse
- Record information on donors
- Label and process donated blood.

Morgue attendants

- Assist pathologists at autopsies by laying out surgical instruments
- Prepare solutions for preservation of specimens
- Transfer bodies from morgue to examining table
- Remove organs and tissue specimens, as instructed by attending pathologist, and placing them in preservative solutions
- Clean and sew up bodies for release to funeral home.

Employment requirements

- Audiometric technicians usually require a specialization in industrial audiometry testing.
- Orthopedic technologists usually require completion of secondary school and several months of on-the-job training or a college orthopedic technologist program.
- Registration with the Canadian Society of Orthopaedic Technologists is available and may be required by employers.
- Ophthalmic assistants require completion of a six to twelve month ophthalmic assistants college program or a minimum of one year of on-the-job training under the supervision of an ophthalmologist, and completion of an approved ophthalmic assistant home study program.
- Certification by the Joint Commission on Allied Health Personnel in Ophthalmology may be required by employers.
- Health care courses or short-term college programs related to the work of medical therapy aides, such as recreational therapy programs, are available and may be required by employers.
- Sterile processing technicians require completion of secondary school and a six- to nine-month sterile processing college program.
- Completion of secondary school and several months of on-the-job training are usually required for other assisting occupations in this unit group.

Additional information

- Ophthalmic assistants may progress to ophthalmic technician positions with training and experience.
- Certified Ophthalmic Assistants may also have additional specialty certification such as Registered Ophthalmic Ultrasound Biometrist (ROUB) or Certified Diagnostic Ophthalmic Sonographer (CDOS).

4 Occupations in education, law and social, community and government services

This broad category comprises managers in public administration, in education and social and community services and in public protection services, as well as occupations concerned with teaching, law, counselling, conducting social science research, developing government policy, and administering government and other programs, and related support occupations.

40 Managers in public administration, in education and social and community services and in public protection services

This major group comprises managers in public administration, in education and social and community services and in public protection services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

400 Managers in public administration, in education and social and community services and in public protection services

This sub-major group comprises managers in public administration; in education services; in social, community and correctional services; and in public protection services.

4001 Managers in public administration

This minor group comprises managers in public administration, including government managers in health and social policy development and program administration; government managers in economic analysis, policy development and program administration; government managers in education policy development and program administration; and other managers in public administration. They are employed by government departments, agencies, and legislative bodies.

40010 Government managers - health and social policy development and program administration

Government managers in health and social policy development and program administration plan, organize, direct, control and evaluate the development and administration of health care policies, social policies and related programs designed to protect and promote the health and social welfare of individuals and communities. They are employed by all levels of government.

Illustrative example(s)

- city medical officer of health - government services
- health information and promotion director - government services
- health program operations manager - government services
- housing policy and development director - government services
- immigration and settlement director - government services
- social services director - government services
- social services planning manager - government services

Exclusion(s)

- Government managers - economic analysis, policy development and program administration (40011)
- Government managers - education policy development and program administration (40012)
- Managers in health care (30010)
- Managers in social, community and correctional services (40030)

- Other managers in public administration (40019)
- Policy and program researchers, consultants and officers (4140)
- Senior government managers and officials (00011)

Main duties

This group performs some or all of the following duties:

- Participate in the development of health or social policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise health or social policy researchers, consultants or program officers who conduct research, prepare documents or administer programs for individuals and communities in areas such as health and social services, employment and immigration, labour or housing
- Plan, administer and control budgets for research and administration, support services and equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate health and social services projects and programs
- Interview, hire and provide training for staff.

Employment requirements

Government managers in health policy development and program administration

- A bachelor's degree or college diploma in health science, hospital administration or public administration or a bachelor's degree in social science is required.
- A graduate degree in a health, social science or an administrative discipline may be required.
- Several years of experience as a health or social policy researcher, consultant or program officer are usually required.
- For some government managers in health policy development and program administration, certification in the relevant health profession is required. For example, city medical officers of health must be physicians.

Government managers in social policy development and program administration

- A bachelor's degree or a college diploma in a social science discipline, such as sociology or economics, or an administrative discipline, such as public administration, is required.
- A graduate degree in a social science or an administrative discipline may be required.
- Several years of experience as a social policy researcher, consultant or program officer are usually required.

Additional information

- Progression to senior management positions in the health and social policy fields is possible with experience.

40011 Government managers - economic analysis, policy development and program administration

Government managers in economic analysis, policy development and program administration plan, organize, direct, control and evaluate economic policy, research and programs in areas of government activity such as taxation, international trade, labour markets, transportation or agriculture. They also plan and direct policies and programs to promote industrial and commercial business development in urban and rural areas. They are employed by all levels of government.

Illustrative example(s)

- border services manager
- business development director - government services
- customs manager - government services
- economic analysis chief - government services
- economic development director - government services
- economic policy analysis director - government services
- energy market analysis director - government services
- excise tax programs director - government services
- farm products marketing director - government services
- forest resource analysis chief - government services
- grain market analysis manager - government services
- international trade policy manager - government services
- revenue programs manager - government services
- tax policy research manager - government services
- taxation manager
- tourism development manager - government services
- trade development director

Exclusion(s)

- Business development officers and market researchers and analysts (41402)
- Economists and economic policy researchers and analysts (41401)
- Financial managers (10010)
- Government managers - health and social policy development and program administration (40010)
- Labour policy analyst (See 41403-Social policy researchers, consultants and program officers)
- Policy and program researchers, consultants and officers (4140)
- Senior government managers and officials (00011)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the development of economic policy research projects and economic programs
- Participate in the development of departmental policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise economists and other professional staff who conduct economic research, prepare reports or administer programs in areas of government activity such as taxation, international trade, labour, transportation or agriculture
- Direct and advise economic development officers or other staff administering programs to promote industrial and commercial business investment in urban or rural areas
- Plan, administer and control research and administration budgets for projects, support services, equipment or supplies

- Organize and direct committees evaluating departmental or agency projects or programs
- Interview, hire and oversee training and professional development.

Employment requirements

- A bachelor's degree in economics, business administration, commerce or public administration is required.
- A master's degree in economics or a related field may be required.
- Several years of experience as an economist, economic development officer or socio-economic researcher are required.

Additional information

- Progression to senior management positions is possible with experience.

40012 Government managers - education policy development and program administration

Government managers in education policy development and program administration plan, organize, direct, control and evaluate the development and administration of elementary, secondary and post-secondary education policies and programs. They are employed by all levels of government.

Illustrative example(s)

- education curriculum development director
- education director
- education policy analysis and research director
- education program administration manager
- school inspection director - public administration

Exclusion(s)

- Administrators - post-secondary education and vocational training (40020)
- Government managers - health and social policy development and program administration (40010)
- Policy and program researchers, consultants and officers (4140)
- School principals and administrators of elementary and secondary education (40021)
- Senior government managers and officials (00011)

Main duties

This group performs some or all of the following duties:

- Participate in the development of education policy by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise policy researchers or program officers conducting research, preparing documents or administering educational programs for elementary and secondary school systems
- Plan, administer and control budgets for projects, programs, support services, equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate education projects and programs
- Interview, hire and provide training for staff.

Employment requirements

- A bachelor's degree in education is required.
- A master's degree in a particular educational specialization may be required.
- Several years of combined experience as a school teacher and as a government educational policy researcher, consultant or program officer are usually required.
- A provincial teaching certificate is usually required.

Additional information

- Progression to senior management positions in education is possible with experience.

40019 Other managers in public administration

Other managers in public administration plan, organize, direct, control and evaluate the development of policies and programs which govern the daily operations of legislatures and other activities unique to government such as intergovernmental affairs and elections. They are employed by all levels of government.

Illustrative example(s)

- clerk of the committee - Legislative Assembly
- elections planning director
- federal-provincial relations director
- intergovernmental affairs director

Exclusion(s)

- Administrative services managers (1001)
- Government managers - economic analysis, policy development and program administration (40011)
- Government managers - education policy development and program administration (40012)
- Government managers - health and social policy development and program administration (40010)
- Policy and program researchers, consultants and officers (4140)
- Senior government managers and officials (00011)

Main duties

This group performs some or all of the following duties:

- Participate in the development of policies and programs by providing advice to senior government managers of legislatures or departments or agencies involved in activities unique to government
- Organize government unit or agency and establish procedures to meet objectives set by senior management
- Direct and advise professional and non-professional staff conducting research, preparing documents or providing administrative support
- Plan, administer and control research and administration budgets for projects, programs, equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate projects and programs
- Interview, hire and provide training for staff.

Employment requirements

- A bachelor's degree in a social science discipline, law or business administration is required.
- Several years of experience in government policy development, research or program administration, or in a professional occupation in social science, law or business administration are usually required.

Additional information

- Progression to senior management positions in this field is possible with experience.

4002 Managers in education

This minor group comprises managers in education, including administrators in post-secondary education and vocational training, and school principals and administrators of elementary and secondary education. They are employed by colleges, universities, vocational training schools, public and private elementary and secondary schools and school boards.

40020 Administrators - post-secondary education and vocational training

Administrators in post-secondary education and vocational training include faculty administrators and registrars of colleges or universities and administrators of vocational training schools. Faculty administrators manage the academic and related activities of faculties of colleges or universities. Registrars manage registration activities and academic records systems of colleges or universities. Administrators of vocational training schools manage the operations of vocational schools specializing in trades, technology, business or other vocational subjects.

Illustrative example(s)

- aviation school manager
- business school manager
- community college dean
- community college registrar
- dean - university or college
- dean of adult education
- faculty of science dean
- school of nursing dean
- school of technology dean
- student activities dean
- trade school manager
- university registrar

Exclusion(s)

- College and other vocational instructors (41210)
- Managers in customer and personal services (60040)
- Rector - education (See 00013-Senior managers - health, education, social and community services and membership organizations)
- School principals and administrators of elementary and secondary education (40021)
- University president (See 00013-Senior managers - health, education, social and community services and membership organizations)
- University professors and lecturers (41200)

Main duties

This group performs some or all of the following duties:

Faculty administrators

- Plan, organize, direct, control and evaluate academic and related activities of a college or university faculty
- Recommend and approve faculty appointments
- Recommend curriculum revisions and additions and approve scheduling of courses
- Direct, through subordinate staff, activities such as research and curriculum development
- Plan, administer and control budgets for projects, programs, support services and equipment
- Advise president or rector of university or college
- Participate in activities of various faculty and college committees.

Registrars

- Plan, organize, direct, control and evaluate the registration activities and academic records system of a college or university
- Review registration statistics and consult with faculty officials to develop registration policies
- Direct activities of staff and others engaged in compiling information on courses, schedules and requirements for admission and graduation.

Administrators of vocational training schools

- Plan, organize, direct, control and evaluate the activities of a private college or institute specializing in trades, technology or business
- Develop curriculum for training programs
- Consult with government regulatory and licensing agencies to ensure conformance to provincial standards
- Plan, administer and control budgets for projects, programs, support services and equipment
- May recruit and hire teachers and other staff
- May teach.

Employment requirements

- Faculty administrators require a graduate degree in a field related to the academic faculty and
Several years of experience as a university professor or college teacher.
- Registrars require an undergraduate degree in business administration or a related field and
Several years of experience in registration administration.
- Administrators of vocational training schools usually require an undergraduate degree in business administration
or
Expertise and certification in a subject of instruction.

Additional information

- There is no mobility among the various types of administrators in this group.
- Progression to some senior management positions in education is possible with experience.

40021 School principals and administrators of elementary and secondary education

School principals plan, organize, direct, control and evaluate the activities of teachers and other staff of an elementary or secondary school. They are employed by public and private schools. Administrators of elementary and secondary education plan, organize, direct, control and evaluate the academic affairs of a school system. They are employed by school boards.

Illustrative example(s)

- board of education administrator
- chief superintendent - schools
- director of education - correctional institution
- director of school for the hearing impaired
- district school superintendent
- private school headmaster/mistress
- school principal
- school vice-principal
- secondary school principal
- superintendent of elementary education
- superintendent of secondary schools
- superintendent of special education

Exclusion(s)

- Administrators - post-secondary education and vocational training (40020)
- Education policy researchers, consultants and program officers (41405)
- Government managers - education policy development and program administration (40012)
- Senior managers - health, education, social and community services and membership organizations (00013)

Main duties

This group performs some or all of the following duties:

School principals

- Plan, organize, direct, control and evaluate, through department heads or supervisors, the activities of teachers and support staff
- Review programs to ensure conformance to school board or provincial standards and develop programs within limits of authority
- Coordinate teaching activities of the institution by making personnel assignments, determining class size and preparing timetables
- Organize and maintain procedures for the keeping of records
- Prepare and administer institution or program budget
- Direct and coordinate school maintenance services and the use of school facilities
- May recruit and hire teachers and other staff
- May teach.

Administrators of elementary and secondary education

- Plan, organize, direct, control and evaluate, through school principals, the academic affairs of a school district
- Evaluate curriculum, teaching methods and community participation in programs for a school district and revise programs as required
- Develop and administer programs for the education and training of students and adults
- Make recommendations concerning the annual operating budget of a school district
- Direct the recruitment, appointment, training, evaluation and promotion of teaching personnel.

Employment requirements

- A bachelor's degree in education is required.
- A master's degree in education may be required.
- Several years of experience as a senior teacher or department head are required.
- A teacher's certificate for the province of employment is required.
- School principals may require a principal's certificate.
- Administrators of elementary and secondary education may require a supervisory officer certificate.

Additional information

- There is little mobility between institutional settings, for example, between elementary and secondary schools.

4003 Managers in social, community and correctional services

This minor group comprises managers in social, community and correctional services. They are employed by social service and community agencies, correctional institutions, counselling departments, labour organizations, professional associations, political parties and non-governmental organizations.

40030 Managers in social, community and correctional services

Managers in social, community and correctional services plan, organize, direct, control and evaluate the programs and activities of social service and community agencies, correctional institutions, counselling departments, labour organizations, professional associations, political parties and non-governmental organizations.

Illustrative example(s)

- assistant vice-president - health, education, social and community services and membership organizations
- association director
- child welfare services administrator
- children's aid society director
- community centre director
- correctional institution director
- correctional treatment and training director
- detention centre director
- environmental group director
- family services area manager
- income maintenance director
- labour organization manager

- membership services manager
- political organization manager
- prison warden
- social assistance director
- social services regional administrator
- social work director
- trade association manager
- volunteer services director

Exclusion(s)

- Government managers - health and social policy development and program administration (40010)
- Senior managers - health, education, social and community services and membership organizations (00013)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of social and community service programs such as income maintenance, children's aid and emergency housing services
- Manage the operations and activities of social and community centres, correctional facilities and detention centres
- Administer the programs of non-governmental organizations involved with social issues such as health care, human rights, consumer protection, international development and environmental protection
- Administer programs of membership organizations such as political parties, labour organizations, business and professional associations
- Establish administrative procedures to meet objectives set by board of directors or senior management
- Direct and advise professional and non-professional staff delivering services and programs to the general public and to the organization or association membership
- Plan, administer and control budgets for programs, equipment and support services
- Represent their respective organizations for the purpose of government liaison and media relations
- Participate in policy development by preparing reports and briefs for management committees and working groups
- Hire and provide training for professional and non-professional staff.

Employment requirements

- Managers in social, community and correctional services usually require a master's degree in a social science or administrative discipline and
Several years of experience in a related occupation, such as a community and social service worker, social or health policy researcher, consultant or program officer, probation or parole officer, or social worker.
- Managers of associations and membership organizations require extensive experience in a related occupation, trade or industry.

Additional information

- Progression to senior management positions in social, community and correctional services is possible with additional training and experience.

4004 Managers in public protection services

This minor group comprises managers in public protection services, including commissioned police officers and related occupations in public protection services; fire chiefs and senior firefighting officers; and commissioned officers of the Canadian Armed Forces. They are employed by municipal, provincial and federal governments and industrial establishments with firefighting services.

40040 Commissioned police officers and related occupations in public protection services

Commissioned police officers plan, organize, direct, control and evaluate police force administration and police activities such as maintaining law and order and detecting and preventing crime. They are employed by municipal, provincial and federal governments. This unit group includes officers from the rank of staff sergeant to police commissioner. Commissioned officers in the railway police, deputy chief coroners, and deputy chief medical examiners are also included in this unit group.

Illustrative example(s)

- chief superintendent
- deputy police chief
- harbour police chief
- police chief
- police lieutenant
- police superintendent
- railway police chief
- Royal Canadian Mounted Police (RCMP) commissioner

Inclusion(s)

- deputy chief coroner
- deputy chief medical examiner

Exclusion(s)

- By-law enforcement and other regulatory officers (43202)
- Police investigators and other investigative occupations (41310)
- Police officers (except commissioned) (42100)
- Sheriffs and bailiffs (43200)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a police force or division of a police force
- Develop and implement police force policies and procedures
- Oversee police investigations and ensure that procedures are conducted in accordance with laws and regulations
- Assess performance of subordinates and authorize promotions, transfers and disciplinary actions
- Coordinate and monitor budget and departmental resources.

Employment requirements

- Completion of secondary school is required.
- A university degree in the social sciences or in business administration is usually required.
- Several years of experience as a police officer is required.

Additional information

- Depending on provincial and territorial legislation, deputy chief coroners and deputy chief medical examiners may act as or be appointed to the position of chief coroner and chief medical examiner in their absence.

40041 Fire chiefs and senior firefighting officers

Fire chiefs and senior firefighting officers plan, organize, direct, control and evaluate firefighting operations and fire prevention activities in fire departments. They are employed by municipal and federal governments and by industrial establishments with firefighting services.

Illustrative example(s)

- deputy fire chief
- district fire chief
- fire chief

Exclusion(s)

- Firefighters (42101)

Main duties

This group performs some or all of the following duties:

- Develop, implement and evaluate policies and procedures for the operation of a municipal fire department, a district fire region or an industrial firefighting service
- Plan, direct and coordinate firefighting strategies for fire departments
- Evaluate the type of fire, the extent of damage to buildings and the danger to nearby establishments
- Direct activities at the scene of a fire
- Determine damage estimates and investigate the potential causes of a fire after extinguished
- Develop and oversee the implementation of security and fire prevention campaigns
- Represent the fire department in communications with government, the media and the public
- Direct the training of personnel in firefighting methods
- Coordinate and monitor budget and departmental resources.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in fire protection technology, fire science or a related field is usually required.
- Completion of a provincial or municipal firefighters training course is required.
- A minimum of ten years of experience as a firefighter is usually required before becoming eligible for a senior officer position.

40042 Commissioned officers of the Canadian Armed Forces

Commissioned officers of the Canadian Armed Forces plan, organize, command, direct, control and evaluate, the operations of their organization in relation to established objectives. Senior commissioned officers formulate military and strategic policies which establish the direction to be taken by the Canadian Forces. All ranks of commissioned officers in the Royal Canadian Air Force, Canadian Army, and Royal Canadian Navy are included in this unit group.

Illustrative example(s)

- admiral
- artillery officer
- brigadier general
- colonel
- commodore
- lieutenant commander
- major
- naval cadet
- officer cadet
- search and rescue captain

Exclusion(s)

- Operations members of the Canadian Armed Forces (43204)
- Primary combat members of the Canadian Armed Forces (44200)
- Specialized members of the Canadian Armed Forces (42102)

Main duties

This group performs some or all of the following duties:

- Allocate material, human and financial resources to implement military policies and programs, establish administrative controls, and approve overall personnel planning
- Plan, organize and command the activities of the Canadian Armed Forces combat units and military strategic units in the Army, Royal Canadian Air Force, and Royal Canadian Navy at home and when deployed overseas during operations in conflict territory
- Plan, organize and command units engaged in non-military disaster relief, humanitarian and peacekeeping operations at the national and international level
- Set objectives of the organization in accordance with legislation and government policy, formulate or approve and evaluate programs and procedures, alone or in collaboration with senior government committees
- Coordinate the work of various military strategic units employing appropriate levels of military force for specific tasks
- Develop and implement military procedures and policies that are geared to the capabilities and performance of each unit.

Employment requirements

- A university degree is usually required.
- Completion of military training is required.

- Experience as a non-commissioned member of the armed forces and demonstrated leadership ability may substitute for a university degree.
- Senior ranks, such as colonel, require several years of experience.

Additional information

Senior commissioned officers are classified according to their military rank.

41 Professional occupations in law, education, social, community and government services

This major group comprises professional occupations in law, education, social, community and government services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 1. Occupations classified in TEER 1, as those in this group with a 1 as the second digit of their code, typically require a university degree (bachelor's, master's or doctorate) or the accumulation several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 2, when applicable (which includes occupations with a 2 as a second digit in their code).

411 Professional occupations in law

This sub-major group comprises professional occupations in law, including judges, lawyers (across Canada) and Quebec notaries.

4110 Judges, lawyers and Quebec notaries

This minor group comprises professional occupations in law, including judges, lawyers (across Canada) and Quebec notaries. Judges preside over federal and provincial courts. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments; or they may be self-employed.

41100 Judges

Judges adjudicate civil and criminal cases and administer justice in courts of law. Judges preside over federal and provincial courts.

Illustrative example(s)

- chief justice
- county court judge
- Court of Queen's Bench justice
- district court judge
- family court judge
- federal trial court justice
- provincial court of appeal justice
- small claims court judge
- superior court justice
- Supreme Court justice

Exclusion(s)

- Administrative tribunal judge - government services (See 40010-Government managers - health and social policy development and program administration)
- Citizenship judge (See 42200-Paralegals and related occupations)
- Justice of the peace (See 42200-Paralegals and related occupations)

Main duties

This group performs some or all of the following duties:

- Preside over courts of law, interpret and enforce rules of procedure and make rulings regarding the admissibility of evidence
- Instruct the jury on laws that are applicable to the case
- Weigh and consider evidence in non-jury trials and decide legal guilt or innocence or degree of liability of the accused or defendant
- Pass sentence on persons convicted in criminal cases and determine damages or other appropriate remedy in civil cases
- Grant divorces and divide assets between spouses
- Determine custody of children between contesting parents and other guardians
- Enforce court orders for access or support
- Supervise other judges and court officers.

Judges may specialize in particular areas of law such as civil, criminal or family law.

Employment requirements

- Extensive experience as a lawyer or as a professor of law with continuous membership in the bar association is usually required.
- Membership in good standing with a provincial or territorial law society or bar association is required.
- Judges are appointed by federal or provincial cabinets.
- Those appointed to more senior positions in a court, such as chief justice, usually have experience as judges in that court.

41101 Lawyers and Quebec notaries

Lawyers and Quebec notaries advise clients on legal matters, represent clients before administration boards and draw up legal documents such as contracts and wills. Lawyers also plead cases, represent clients before tribunals and conduct prosecutions in courts of law. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments or they may be self-employed. Articling students are included in this unit group.

Illustrative example(s)

- barrister
- corporate counsel
- Crown Attorney
- law partner
- lawyer
- legal advisor

- legal counsel
- legislative counsel
- notary (Quebec)
- prosecutor
- solicitor

Inclusion(s)

- judicial assistant - Supreme Court

Exclusion(s)

- Legal department director (See 10019-Other administrative services managers)
- Legal firm manager (See 10029-Other business services managers)
- Notary public (See 42200-Paralegals and related occupations)
- Patent agent (See 41400-Natural and applied science policy researchers, consultants and program officers)
- Trademark agent (See 42200-Paralegals and related occupations)

Main duties

This group performs some or all of the following duties:

- Advise clients of their legal rights and all matters related to law
- Research legal precedents and gather evidence
- Plead clients' cases before courts of law, tribunals and boards (lawyers only)
- Draw up legal documents such as real estate transactions, wills, divorces and contracts, and prepare statements of legal opinions
- Negotiate settlements of civil disputes (lawyers only)
- Perform administrative and management functions related to the practice of law
- May act as mediator, conciliator or arbitrator
- May act as executor, trustee or guardian in estate and family law matters.

Lawyers and Quebec notaries may specialize in specific areas of the law such as criminal law (lawyers only), corporate law, contract law, taxation law, administrative law, international law, commercial law, real estate law, family and estate law, intellectual property law and labour law.

Employment requirements

Lawyers

- Two to three years of undergraduate studies or, in Quebec, completion of a college program, a bachelor's degree from a recognized law school, successful completion of the bar examination and completion of a period of articling are required.
- Licensing by the provincial or territorial law society is required.
- Be an active member of a law society in the province or territory of legal practice.

Notaries (Quebec)

- A bachelor's degree in civil law from a recognized law school and a master's degree in notarial law, which includes a 16-week internship, from a recognized law school are required.
- A 15-day training program at the Chambre des notaires du Québec is required.
- Licensing by the Chambre des notaires du Québec is required.

Additional information

- Lawyers wishing to practise in another province or territory are required to pass examinations set by the provincial or territorial law society, except in New Brunswick and Saskatchewan where the National Mobility Agreement (2013) was implemented.

412 Professional occupations in education services

This sub-major group comprises professional occupations in education services, including university professors and post-secondary assistants; college and other vocational instructors; secondary, elementary and kindergarten school teachers.

4120 University professors and post-secondary assistants

This minor group comprises university professors and lecturers, and post-secondary teaching and research assistants. They are employed by universities and colleges.

41200 University professors and lecturers

University professors and lecturers teach courses to undergraduate and graduate students and conduct research at universities. University professors who are heads of departments are included in this unit group.

Illustrative example(s)

- botany assistant professor - university
- computer science professor - university
- engineering instructor - university
- English professor - university
- food sciences department chairperson - university
- French language professor - university
- geography department head - university
- lecturer - university
- linguistics associate professor
- physics department chairperson - university
- professor of medicine - university
- university professor

Inclusion(s)

- postdoctoral fellow
- teacher - teacher's college

Exclusion(s)

- College and other vocational instructors (41210)
- Other instructors (43109)
- Post-secondary teaching and research assistants (41201)

Main duties

This group performs some or all of the following duties:

- Teach one or more university subjects to undergraduate and graduate students
- Prepare and deliver lectures to students and conduct laboratory sessions or discussion groups
- Prepare, administer and grade examinations, laboratory assignments and reports
- Advise students on course and academic matters and career decisions
- Direct research programs of graduate students and advise on research matters
- Conduct research in field of specialization and publish findings in scholarly journals or books
- May serve on faculty committees dealing with such matters as curriculum planning and degree requirements, and perform a variety of administrative duties
- May represent their universities as speakers and guest lecturers
- May provide professional consultative services to government, industry and private individuals.

University professors and lecturers specialize in a particular subject matter such as biology, chemistry, anatomy, sociology, business administration or law.

Employment requirements

- A doctoral degree in the field of specialization is required for university professors.
- A master's degree in the field of specialization is required for university lecturers.
- Licences or professional certification may be required for professors teaching future practitioners in certain professionally regulated fields, such as medicine, engineering, architecture, psychology or law.

Additional information

- University professors who are also practitioners in their field of specialization must have the appropriate licences or certification.
- Progression to senior positions within a department, faculty or university is possible with experience.

41201 Post-secondary teaching and research assistants

Post-secondary teaching and research assistants assist university professors, community college and CEGEP teachers and other faculty members in teaching and research activities at universities and colleges.

Illustrative example(s)

- college laboratory assistant
- college teaching assistant
- graduate assistant - university
- post-secondary research assistant
- university research assistant

Inclusion(s)

- tutor - post-secondary teaching assistant

Exclusion(s)

- Elementary and secondary school teacher assistants (43100)
- Other instructors (43109)

Main duties

This group performs some or all of the following duties:

Post-secondary teaching assistants

- Organize reference materials, visual aids and other materials as required by university professors or college teachers for lectures
- Conduct seminars, discussion groups and laboratory sessions to supplement lectures
- Assist in the preparation and administration of examinations
- Grade examinations, term papers and laboratory reports.

Research assistants

- Conduct literature reviews, surveys, laboratory experiments and other research for use in scholarly publications
- Compile research results and assist professors in the analysis of results and the preparation of journal articles or papers.

Post-secondary teaching and research assistants specialize in a subject matter based on their field of study.

Employment requirements

- Enrolment in, or completion of, a university or college program is required.

4121 College and other vocational instructors

This minor group comprises college and other vocational instructors. They teach at community colleges, CEGEPs, agricultural colleges, technical and vocational institutes, language schools and other college level schools. This minor group also includes trainers who are employed by private training establishments, companies, community agencies and governments to deliver internal training or development courses.

41210 College and other vocational instructors

College and other vocational instructors teach applied arts, academic, technical and vocational subjects to students at community colleges, CEGEPs, agricultural colleges, technical and vocational institutes, language schools and other college level schools. This unit group also includes trainers who are employed by private training establishments, companies, community agencies and governments to deliver internal training or development courses. College teachers who are heads of departments are included in this unit group.

Illustrative example(s)

- college teacher
- commercial art instructor
- community college teacher
- company trainer
- computer training instructor
- department chairperson - college
- department head - general and vocational college (CEGEP)
- firefighting instructor
- general and vocational college (CEGEP) teacher
- instructor - technology institute
- language school instructor

- lecturer - college
- legal assistant program teacher
- teacher - institute of technology
- training officer - company
- vocational institute teacher

Exclusion(s)

- Administrators - post-secondary education and vocational training (40020)
- Other instructors (43109)
- Secondary school teachers (41220)
- University professors and lecturers (41200)

Main duties

This group performs some or all of the following duties:

- Teach students using a systematic plan of lectures, demonstrations, discussion groups, laboratory work, shop sessions, seminars, case studies, field assignments and independent or group projects
- Develop curriculum and prepare teaching materials and outlines for courses
- Prepare, administer and mark tests and papers to evaluate students' progress
- Advise students on program curricula and career decisions
- Provide individualized tutorial or remedial instruction to students who require it
- Supervise independent or group projects, field placements, laboratory work or hands-on training
- Supervise teaching assistants
- May provide consultation services to government, business and other organizations
- May serve on committees concerned with matters such as budgets, curriculum revision, and course and diploma requirements.

These instructors specialize in particular fields or areas of study such as visual arts, dental hygiene, welding, engineering technology, policing, computer software, management and early childhood education.

Employment requirements

- A bachelor's degree, a college diploma or demonstrated expertise in the field of instruction is required.
- A master's degree in the field of instruction may be required.
- A certificate, diploma or degree in adult education may be required.
- For instructors of trades, completion of apprenticeship training and industry or trade certification are required. Additional courses in teaching or a provincial teaching certificate may be required.

Additional information

- Progression to administrative positions in post-secondary education is possible with experience.

4122 Secondary, elementary and kindergarten school teachers

This minor group comprises secondary, elementary and kindergarten school teachers. They are employed by public and private secondary and elementary schools, school boards, and post-secondary educational institutions.

41220 Secondary school teachers

Secondary school teachers prepare and teach academic, technical, vocational or specialized subjects at public and private secondary schools. Secondary school teachers who are heads of departments are included in this unit group.

Illustrative example(s)

- adult education teacher - secondary school
- biology teacher - secondary school
- commerce teacher - secondary school
- English as a second language (ESL) high school teacher
- English teacher - secondary school
- French as a second language teacher - secondary school
- history teacher - secondary school
- librarian-teacher - high school
- remedial teacher - secondary school
- secondary school department head
- secondary school teacher
- special education teacher - secondary school
- supply high school teacher
- trades instructor - secondary school
- vocational teacher - secondary school

Exclusion(s)

- College and other vocational instructors (41210)
- Educational counsellors (41320)
- Elementary and secondary school teacher assistants (43100)
- Elementary school and kindergarten teachers (41221)
- Instructors of persons with disabilities (42203)
- Other instructors (43109)
- Psychoeducator (See 41301-Therapists in counselling and related specialized therapies)
- School principals and administrators of elementary and secondary education (40021)
- Secondary school librarian (See 52100-Library and public archive technicians)

Main duties

This group performs some or all of the following duties:

- Prepare subject material for presentation to students according to an approved curriculum
- Teach students using a systematic plan of lectures, discussions, audio-visual presentations, and laboratory, shop and field studies
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate progress, determine individual needs of students and discuss results with parents and school officials
- Prepare and implement remedial programs for students requiring extra help

- Participate in staff meetings, educational conferences and teacher training workshops
- May teach and evaluate students through distance or online courses
- May advise students on course selection and on vocational and personal matters
- May supervise student teachers.

Secondary school teachers may specialize in such areas as mathematics, English, French, special education or second language instruction. Secondary school teachers of vocational and trades subjects may specialize in areas such as hairdressing or auto mechanics.

Employment requirements

- Teachers of academic subjects require a bachelor's degree in education which is often preceded by a bachelor's degree in the arts or sciences.
- Teachers of vocational or technical subjects require a bachelor's degree in education which is usually preceded by specialized training or experience in the subject.
- Instructors of trades in Quebec require completion of an apprenticeship training program and industry or trade certification.
- Department heads usually require several years of teaching experience.
- To specialize in special education or English or French as a second language, additional training is required.
- A provincial teaching certificate is required.
- Membership in a provincial or territorial teachers' association or federation may be required.

Additional information

- Progression to vice-principal or other administrative positions in the education system is possible with experience.
- In Quebec, trades training programs are usually offered in the secondary school system.

41221 Elementary school and kindergarten teachers

Elementary school and kindergarten teachers teach basic subjects such as reading, writing and arithmetic or specialized subjects such as English or French as a second language at public and private elementary schools.

Illustrative example(s)

- English as a second language elementary school teacher
- French as a second language elementary school teacher
- French immersion teacher - elementary school
- kindergarten teacher
- primary school teacher
- remedial teacher - elementary school
- special education teacher - elementary school
- special education teacher - primary school
- supply teacher - elementary school
- teacher-librarian - elementary school

Exclusion(s)

- Early childhood educators and assistants (42202)
- Elementary and secondary school teacher assistants (43100)

- Elementary school librarian (See 52100-Library and public archive technicians)
- Psychoeducator (See 41301-Therapists in counselling and related specialized therapies)
- School principals and administrators of elementary and secondary education (40021)
- Secondary school teachers (41220)
- Teacher of persons with developmental disabilities (See 42203-Instructors of persons with disabilities)

Main duties

This group performs some or all of the following duties:

- Prepare courses for presentation to students according to approved curriculum
- Teach students using a systematic plan of lessons, discussions, audio-visual presentations and field trips
- Lead students in activities to promote their physical, mental and social development and their school readiness
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate the progress of students and discuss results with students, parents and school officials
- Identify children's individual learning needs
- Prepare and implement remedial programs for students requiring extra help
- Participate in staff meetings, educational conferences and teacher training workshops
- May supervise teachers' aides and student teachers.

Elementary school and kindergarten teachers may specialize in such areas as special education or second language instruction.

Employment requirements

- A bachelor's degree in education is required.
- A bachelor's degree in child development may be required.
- Additional training is required to specialize in special education or second language instruction.
- A provincial teaching certificate is required. Additional certification is required to teach English or French as a second language.
- Membership in a provincial or territorial teachers' association or federation is usually required.

Additional information

- Progression to education consultant or school principal is possible with experience.

413 Professional occupations in social and community services

This sub-major group comprises professional occupations in social and community services, including social and community service professionals; police investigators and probation officers; and educational and employment counsellors.

4130 Social and community service professionals

This minor group comprises social and community service professionals, including social workers; therapists in counselling and related specialized therapies; and religious leaders. They work in private practice; and are employed by mental health, health care and rehabilitation facilities; correctional facilities, community service, social service, and child welfare organizations; school boards and educational institutions; sports organizations; counselling centres, group homes, family therapy centres; employee assistance programs, human resource

departments, and employment service organizations; consulting, and other companies; Aboriginal band councils, and federal and provincial governments; government and private research agencies; and churches, synagogues, temples and other places of worship.

41300 Social workers

Social workers help individuals, couples, families, groups, communities and organizations develop the skills and resources they need to enhance social functioning and provide counselling, therapy and referral to other supportive social services. Social workers also respond to other social needs and issues such as unemployment, racism and poverty. They are employed by hospitals, school boards, social service agencies, child welfare organizations, correctional facilities, community agencies, employee assistance programs and Aboriginal band councils, or they may work in private practice.

Illustrative example(s)

- coordinator of social work
- medical social worker
- psychiatric social worker
- social work supervisor
- social worker

Inclusion(s)

- children's aid investigator

Exclusion(s)

- Educational counsellors (41320)
- Managers in social, community and correctional services (40030)
- Social and community service workers (42201)
- Therapists in counselling and related specialized therapies (41301)

Main duties

This group performs some or all of the following duties:

- Interview clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required
- Provide counsel and therapy to assist clients in developing skills to deal with and resolve their social and personal problems
- Plan programs of assistance for clients including referral to agencies that provide financial assistance, legal aid, housing, medical treatment and other services
- Investigate cases of child abuse or neglect and take authorized protective action when necessary
- Serve as members on interdisciplinary teams of professionals working with client groups
- Act as advocates for client groups in the community, lobby for solutions to problems directly affecting client groups and develop prevention and intervention programs to meet community needs
- Develop or advise on social policy legislation, conduct social research and assist in community development
- Provide mediation services and psychosocial assessments
- Evaluate the effectiveness of counselling and social programs
- May provide public education and consultation to professionals or groups regarding counselling services, issues and methods

- May supervise other social workers.

Social workers may specialize in fields of practice such as child welfare, family services, corrections, gerontology or addictions.

Employment requirements

- A bachelor's degree in social work is required in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, British Columbia, the Northwest Territories and Nunavut.
- In Alberta, a bachelor's degree or diploma in social work is required.
- Supervised practical experience is usually required.
- Successful completion of provincial written and oral examinations may be required.
- Registration with a provincial governing body is mandatory to practise as a social worker in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Alberta and British Columbia.
- Use of the titles "Social Worker" and "Registered Social Worker" is regulated in all provinces.
- Membership in a provincial association of social workers is usually required.

41301 Therapists in counselling and related specialized therapies

Therapists in counselling and related specialized therapies assist individuals and groups of clients to identify, understand and overcome personal problems and achieve personal objectives. They can be specialized to work on specific problems and they may practice psychotherapy. They are employed by counselling centres, social service agencies, group homes, government agencies, family therapy centres, and educational, health care and rehabilitation facilities, or they may work in private practice.

Illustrative example(s)

- addictions counsellor
- art therapist
- bereavement counsellor
- child and youth counsellor
- drama therapist
- family counsellor
- marriage counsellor
- movement therapist
- music therapist
- psychotherapist
- registered clinical counsellor
- registered dance therapist
- registered dance therapist
- registered marriage and family therapist
- sex therapist

Inclusion(s)

- behavioural consultant
- disability consultant

- play therapist
- psychoeducational consultant
- psychoeducator

Exclusion(s)

- Career development practitioners and career counsellors (except education) (41321)
- Educational counsellors (41320)
- Kinesiologists and other professional occupations in therapy and assessment (31204)
- Managers in social, community and correctional services (40030)
- Social and community service workers (42201)
- Social workers (41300)

Main duties

This group performs some or all of the following duties:

- Interview clients, prepare case histories and assess problems
- Develop and implement counselling and intervention programs to assist clients in determining goals and means of attaining them
- Counsel clients, provide therapy and mediation services, and facilitate group sessions
- Liaise with community agencies or partners, and identify additional or alternative services and provide referrals
- Evaluate the effectiveness of counselling programs and interventions, and clients' progress in resolving identified problems and movement toward defined objectives
- Follow up on results of counselling programs and clients' adjustments
- Prepare assessment, progress, follow-up and court reports
- May supervise other counsellors, social service staff and assistants
- May provide public education and consultation to other professionals or groups regarding counselling services, issues and methods
- May provide witness testimony in court proceedings
- May conduct research, publish research papers, educational texts and articles and deliver presentations at conferences
- May collaborate with employee assistance programs or with government organizations in health and safety or with victims of crime
- May participate in fundraising activities.

Employment requirements

- A bachelor's or master's degree in the field of counselling, therapy, mental health, psychology or a related social service discipline is required and a period of supervised clinical work with clients may be required.
- A master's degree in the field of therapy is required for art therapist, music therapist, and dance therapists.
- Membership with a provincial or federal association is usually required by employers.
- Registration with a regulatory body is required in Nova Scotia and New Brunswick for counselling therapists.
- To practise psychotherapy, a permit is required in Quebec and registration with the appropriate regulatory body is required in Ontario.

Additional information

- Counselling therapists usually become specialized in a particular area through continual training and experience.
- Progression to social service management positions is possible with additional training and experience.

41302 Religious leaders

Religious leaders conduct religious services, administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion. They perform these duties in churches, synagogues, temples or other places of worship. They may also work in other institutions such as schools, hospitals and correctional facilities.

Illustrative example(s)

- archbishop
- bishop
- cardinal
- chaplain
- evangelist
- granthi
- imam
- minister
- moderator - religion
- pastor
- priest
- rabbi

Exclusion(s)

- Religion workers (42204)

Main duties

This group performs some or all of the following duties:

- Conduct regular religious services
- Administer rites of faiths such as marriages and funerals
- Pray and promote spirituality by delivering sermons and other talks
- Provide spiritual and moral guidance to members of a religious faith
- Supervise, plan and administer programs of religious education
- May participate in humanitarian endeavours and delivery of social services and welfare activities
- May share in the administrative and financial operation of a religious community
- May provide consultation services to government and other organizations.

Employment requirements

- Completion of college, university or other program in religious studies is usually required. Some occupations in this unit group may require a master's of divinity or theology.
- A period of study with a senior minister is usually required.

Additional information

- Progression to senior positions included in this unit group, within a religious order, is possible with experience.

4131 Police investigators and probation officers

This minor group comprises police investigators, and probation and parole officers. They are employed by municipal, provincial and federal governments.

41310 Police investigators and other investigative occupations

Police investigators and professionals in related investigative occupations follow leads and investigate circumstances relating to crimes committed and obtain information to prevent crimes. They plan and coordinate investigations, collect evidence, interview suspects, victims, witnesses and other stakeholders, conduct surveillance and testify in court. They are employed by municipal, provincial and federal governments. This unit group includes coroners and medical examiners.

Illustrative example(s)

- detective - police
- detective sergeant - police
- drug investigator - police
- police investigator

Inclusion(s)

- coroner
- medical examiner

Exclusion(s)

- Commissioned police officers and related occupations in public protection services (40040)
- Police officers (except commissioned) (42100)
- Private detective (See 64410-Security guards and related security service occupations)

Main duties

This group performs some or all of the following duties:

Police investigators

- Interviews persons in connection with criminal incidents, including victims, witnesses and suspects
- Exchange information and coordinate activities with other law enforcements agencies
- Prepare investigation reports and testify in courts concerning criminal investigations
- Search and collect physical evidence from crimes scenes, such as fingerprints, and attend autopsies
- Perform surveillance by using investigative technologies
- Obtain search warrants, conduct searches and arrest suspects
- May conduct investigation on online networks and computer systems to detect cyber crimes or to recover data
- May supervise and coordinate the work of police officers.

Coroners and medical examiners

- Conduct death investigations to determine the identity of the deceased, date and location of death, medical cause of death, and manner of death
- Order or perform autopsies and other medical tests
- Consult with and request assistance from law enforcement, physicians, and family
- Issue death certificates, including assigning cause and manner of death
- Identify and educate the public on dangerous practices or conditions that may lead to death
- May testify or produce evidence in proceedings about observations made during investigations
- May supervisor and coordinator work of other employees.

Employment requirements

Police Investigators

- Completion of secondary school is required.
- Several years of experience as a police officers are required.
- Completion of a university degree in police investigation is required in Quebec.
- Specialized training or certification may be required for certain areas of investigation.

Coroners and medical examiners

- In Alberta, Manitoba, Nova Scotia, and Newfoundland and Labrador, a medical examiner is required to be a physician with an active medical license.
- In Ontario and Prince Edward Island, coroners are required to be a physician with an active medical license.
- In Quebec, coroners are required to be a non-retired member of the Collège des médecins du Québec, the Barreau du Québec or the Chambre des notaires du Québec, and have a minimum of four years of professional experience in their practice.
- In British Columbia, New Brunswick, Northwest Territories, Nunavut, Saskatchewan, and Yukon, it is preferred coroners have education and experience in the legal, medical or investigative fields.

Additional information

- For police investigators, progression to commissioned police officer positions is possible with additional training and experience.
- For coroners and medical examiners, progression to deputy chief coroner or deputy chief medical officer positions is possible with additional training and experience.

41311 Probation and parole officers

Probation officers monitor the conduct and behaviour of criminal offenders serving probation terms and serving sentences of two years less a day. They are employed by provincial governments. Parole officers monitor the reintegration of criminal offenders serving the remainder of sentences on conditional release and individuals that are subject to a long-term supervision order. They also assess inmates and develop rehabilitation programs for criminal offenders who are incarcerated in correctional facilities. They are employed by federal and provincial governments. Both probation and parole officers work in the community and in correctional facilities including young offender's correctional facilities.

Illustrative example(s)

- parole officer
- probation officer

Exclusion(s)

- Correctional service officers (43201)
- Managers in social, community and correctional services (40030)
- Social and community service workers (42201)
- Social workers (41300)

Main duties

This group performs some or all of the following duties:

- Interview inmates to assess adjustment problems and develop suitable rehabilitation programs
- Prepare reports for the recommendation of security level, penitentiary placement, type of incarceration and types of interventions considered most beneficial for the rehabilitation of the inmates
- Interview offenders, police, family, friends, school authorities and employers to prepare pre-sentence reports and assess offenders' prospects for successful reintegration into the community
- Plan rehabilitation programs with inmates, establishing rules of conduct, goals and objectives
- Refer inmates and offenders to community and social service programs, as required
- Supervise the terms of a probation order and attend court
- Interview probationers and parolees regularly to evaluate their progress in accomplishing goals and maintaining the terms specified in their probation contracts and rehabilitation plans
- Recommend remedial action or initiate court action when terms of probation or parole are violated
- Attend court proceedings to provide expert testimony on an inmate's case as well as detention and dangerous offenders status court rulings
- May perform administrative duties and supervise support staff
- May participate in policy development.

Employment requirements

- A bachelor's degree in social work, criminology, psychology, sociology or other related social science discipline is required.
- A master's degree in social work, criminology, psychology or other related social science discipline may be required.

Additional information

- Progression to correctional service management positions is possible with additional training or experience.

4132 Educational and employment counsellors

This minor group comprises educational counsellors and employment counsellors such as career development practitioners and career counsellors. They are employed by public or private employment agencies, rehabilitation centres, hospitals, human resource departments of establishments, consulting firms, correctional facilities, school boards and educational institutions and by municipal, provincial and federal governments.

41320 Educational counsellors

Educational counsellors advise current and prospective students on educational issues, career planning and personal development, and coordinate the provision of counselling services to students, parents, teachers, faculty and staff. They are employed by school boards and post-secondary educational institutions.

Illustrative example(s)

- academic counsellor
- career counsellor - education
- Indigenous advisor - college
- school counsellor
- student services counsellor

Inclusion(s)

- student employment services coordinator

Exclusion(s)

- Career development practitioners and career counsellors (except education) (41321)
- School psychologist (See 31200-Psychologists)
- Secondary school teachers (41220)
- Social workers (41300)
- Therapists in counselling and related specialized therapies (41301)

Main duties

This group performs some or all of the following duties:

- Counsel students regarding educational issues such as course and program selection, time tables and scheduling, school adjustment, attendance problems and study skills
- Counsel students regarding career or vocational issues including career exploration and planning, résumé preparation, job interview skills and job search strategies and make available to them a wide range of educational and occupational information
- Coordinate co-op and school-to-work transition programs, and the provision of counselling and information services, such as career information, professional development sessions and exchanges with other educational institutions, to students, parents, teachers, faculty and staff
- Consult with teachers and parents or faculty and other professionals such as psychologists, speech therapists and social workers regarding various issues and concerns, and with administrators and community agencies regarding programs and referrals
- Administer and interpret standardized intelligence, personality, vocational, aptitude and interest tests
- Develop and coordinate study skills groups or workshops in high schools, colleges and universities on topics such as note-taking, test or examination anxiety and preparation strategies and time management skills
- Visit colleges and secondary schools to provide academic information to prospective students, their parents and educational counsellors
- Coordinate or participate in student orientation programs in colleges or universities
- Arrange for employers to recruit graduating college and university students, and students for co-op education work terms
- Counsel students regarding personal and social issues such as substance abuse, depression, sexuality, eating disorders, anxiety, self-esteem, family problems, relationship and interpersonal skills and anger management
- Counsel students in crisis situations such as dealing with the death of a friend or family member, suicidal tendencies and abuse situations
- May supervise peer counselling programs in school settings

- May supervise field experience for graduate students in counselling
- May teach regular classes.

Vocational counsellors in Quebec may also provide professional orientation to individuals with a mental illness, disabilities, and those with adaptation difficulties. Those with specific training may also perform certain mental health assessments.

Employment requirements

- A bachelor's degree in counselling, career development, education or social sciences is required for counsellors in school settings.
- A master's degree in counselling psychology or a related field such as educational psychology, developmental psychology or social work is usually required.
- Educational counsellors in post-secondary settings require an undergraduate degree and may require a graduate degree. A particular academic specialization may also be required.
- In Quebec, membership in l'Ordre des conseillers et conseillères d'orientation is mandatory to use the titles "vocational counsellor", "guidance counsellor" and "vocational guidance counsellor".
- A teacher's certificate in the province of employment and some teaching experience is usually required for counsellors in school settings.
- Educational counsellors in colleges and universities may require licensing from a provincial regulatory body governing psychologists, educational counsellors or social workers.

Additional information

- Elementary school counsellors generally provide more social and personal counselling whereas academic counselling is provided more by high school counsellors.
- Educational counsellors in colleges, universities and other settings may specialize in academic, career or personal issues counselling.

41321 Career development practitioners and career counsellors (except education)

Career development practitioners and career counsellors (except education) provide assistance and information to job seeker clients on all aspects of employment search and career planning. They also provide advice and information to employer clients regarding employment issues and human resources. They are employed by public or private employment agencies, rehabilitation centres, hospitals, human resource departments of establishments, consulting firms, correctional facilities and by federal and provincial governments. Supervisors of career development practitioners and career counsellors (except education) are included in this unit group.

Illustrative example(s)

- career counsellor (except education)
- career development counsellor
- career development practitioner
- outplacement counsellor
- rehabilitation counsellor
- relocation consultant
- vocational rehabilitation counsellor

Inclusion(s)

- Aboriginal employment developer
- employment consultant

- relocation counsellor
- vocational rehabilitation specialist
- workforce development officer

Exclusion(s)

- Educational counsellors (41320)
- Employment insurance officer (See 12104-Employment insurance and revenue officers)
- Human resources and recruitment officers (12101)
- Job coach for persons with disabilities (See 42203-Instructors of persons with disabilities)

Main duties

This group performs some or all of the following duties:

- Interview clients to obtain employment history, educational background and career goals
- Identify barriers to employment and assist clients with such matters as job readiness skills, job search strategies, writing résumés and preparing for job interviews
- Assess need for assistance such as rehabilitation, financial aid or further training and refer clients to the appropriate services
- Provide established workers with information and strategies for maintaining a job or moving within an organization, dealing with job dissatisfaction, making mid-career changes and adjusting to workplace transitions
- Collect labour market information for clients regarding job openings, entry and skill requirements and other occupational information
- Advise employers on human resource and other employment-related issues
- Provide consulting services to community groups and agencies, businesses, industry and other organizations involved in providing community-based career planning support or resources
- May administer and interpret tests designed to determine the interests, aptitudes and abilities of clients
- May provide advocacy and adjudication services related to employment legislation or contractual agreements
- May arrange for, or conduct physical, mental, academic, vocational, and other evaluations to obtain information for assessing clients' needs and to develop employment and rehabilitation plans.

Vocational counsellors provide specialized career development services to individuals with physical illnesses or injuries, mental health illnesses and individuals with disabilities. They require additional knowledge and experience to assess employment capabilities and develop associated employment plans.

Employment requirements

- A bachelor's degree or college diploma in employment counselling, career development or in a related field, such as human resources development, psychology, education or social services is required.
- A master's degree in counselling psychology or a related field such as educational psychology, developmental psychology or social work may be required.
- Vocational rehabilitation professional certification may be required by employers.
- In Quebec, membership in l'Ordre des conseillers et conseillères d'orientation du Québec is mandatory to use the titles "vocational counsellor" and "vocational guidance counsellor".

- In New Brunswick, membership in the College of Counselling Therapists of New Brunswick is mandatory to use the title “Licensed career counsellor”.
- In Alberta, British Columbia, New Brunswick, Nova Scotia, and Ontario, Certified Career Development Professional/Practitioner (CCDP) certification may be required by employers.

Additional information

- Mobility to positions in personnel or training is possible.
- Progression to supervisory positions is possible through experience.

414 Professional occupations in government services

This sub-major group comprises professional occupations in government services, including natural and applied science policy researchers, consultants and program officers; economists and economic policy researchers and analysts; business development officers and market researchers and analysts; researchers, consultants and program officers in the areas of social policy, health policy, education policy, recreation, sports and fitness policy; program officers unique to government; and other professional occupations in social science.

4140 Policy and program researchers, consultants and officers

This minor group comprises professional occupations in government services, including natural and applied science policy researchers, consultants and program officers; economists and economic policy researchers and analysts; business development officers and market researchers and analysts; consultants and program officers in the areas of social policy, health policy, education policy, recreation, sports and fitness policy; program officers unique to government; and other professional occupations in social science. They are employed by federal, provincial and municipal governments, and government agencies; universities, educational institutions, and school boards; research, international, non-government, and environmental and conservation organizations; consulting, marketing, and investment companies; banks; unions, and professional and business associations; recreation, sports, and fitness facilities; hospitals, health care facilities, retirement homes, and community centres and agencies; and in industry and manufacturing; or they may be self-employed.

41400 Natural and applied science policy researchers, consultants and program officers

Natural and applied science policy researchers, consultants and program officers conduct research, prepare reports, provide consultation and advice and administer programs in a variety of areas related to the natural and applied sciences. They are employed by federal, provincial and municipal governments, computer and office furniture manufacturers, educational institutions, research organizations, consulting firms, environmental and conservation organizations, or they may be self-employed.

Illustrative example(s)

- certified ergonomist
- emergency management analyst
- emergency preparedness planner
- energy policy analyst
- environmental impact analyst
- environmental issues lobbyist
- environmental program development supervisor
- ergonomics specialist
- fisheries analyst
- industrial hygienist
- natural and applied sciences program officer

- natural resources policy analyst
- occupational hygienist
- recycling program coordinator
- scientific consultant
- technology transfer officer
- transportation safety analyst

Inclusion(s)

- environmental education consultant
- patent agent
- patent searcher

Exclusion(s)

- Architecture and science managers (20011)
- Chemical engineers (21320)
- Civil and mechanical engineers (2130)
- Electrical and electronics engineers (21310)
- Health policy researchers, consultants and program officers (41404)
- Life science professionals (2111)
- Other engineers (2139)
- Patent lawyer (See 41101-Lawyers and Quebec notaries)
- Physical science professionals (2110)

Main duties

This group performs some or all of the following duties:

Ergonomists or human factors specialists

- Conduct research and advise on, and intervene in the physical, social and psychological interrelationships between persons, their equipment and working or living environments to ensure that the design, configuration and use of equipment, procedures and environmental conditions maximize safety, productivity and comfort.

Occupational or industrial hygienists

- Study, evaluate and control physical, chemical and biological hazards and stresses in the workplace
- Report and document investigations and conclusions
- Suggest changes to work environments and processes
- Provide information to workers and managers or employers on methods to reduce the risk of injury or illness from specific occupational hazards
- May teach safe work procedures, participate in emergency response planning, testify at hearings and report findings at scientific conferences or in scientific journals.

Patent agents

- Advise clients on elements of patent law and on the patentability of inventions
- Conduct patent searches
- Prepare patent applications

- Represent clients before the patent office.

Technology transfer officers

- Transfer and integrate new technologies, usually from university or government research and development environments, to commercial and industrial applications and ensure the protection of intellectual property of researchers and developers.

Science policy and program officers

- Conduct research and advise on policies or develop or administer programs related to transportation, emergency preparedness, communications, natural resources, agriculture, the environment, traditional and alternative energy technologies, land use, recycling and other scientific fields
- Promote public awareness and education on issues such as utilization of natural resources, the environment, and reprocessing and reduction of waste.

Employment requirements

- A bachelor's degree or college diploma in a related scientific or technical discipline is usually required for occupations in this unit group.
- A master's degree in a related scientific discipline may be required.
- Certification through the Canadian College of Certified Professional Ergonomists is required to use the title "Canadian Certified Professional Ergonomist (CCPE)". Membership with the Association of Canadian Ergonomists may be required.
- Occupational hygienists may require certification by the Canadian Registration Board of Occupational Hygienists.
- Patent agents require 12 months of work experience in the patent field and successful completion of examinations set by the Commissioner of Patents. They may also be required to be listed in the register of patent agents.
- Occupations in this group that are involved in green building design and technologies development may require the Leadership in Energy and Environmental Design (LEED) certification offered by the Canadian Green Building Council.

Additional information

- Progression to supervisory or managerial positions in these fields is possible with experience.

41401 Economists and economic policy researchers and analysts

Economists and economic policy researchers and analysts conduct research, monitor data, analyze information and prepare reports and plans to resolve economic and business problems and develop models to analyze, explain and forecast economic behaviour and patterns. They advise on matters such as finance, fiscal and monetary policy, international trade, agricultural and natural resource commodities and labour and industrial markets. They are employed by government departments and agencies and throughout the private sector in associations, unions, research organizations, banks and investment firms.

Illustrative example(s)

- agricultural economist
- economic advisor
- economic analyst
- economic policy analyst
- economist

- energy economist
- financial economist
- industrial economist
- international trade economist
- investment economist
- labour economist
- natural resources economist
- tax economist
- trade economist

Inclusion(s)

- business analyst - economics
- consumer advisor - economics
- salary analyst - economic policy
- wage analyst - economic policy

Exclusion(s)

- Business development officers and market researchers and analysts (41402)
- Economics professor - university (See 41200-University professors and lecturers)
- Financial and investment analysts (11101)
- Government managers - economic analysis, policy development and program administration (40011)
- Labour policy analyst (See 41403-Social policy researchers, consultants and program officers)

Main duties

This group performs some or all of the following duties:

- Conduct research and develop models to analyze, explain and forecast economic behaviour and patterns, and devise methods for collection and analysis of data
- Forecast production and consumption of specific products and services based on records of past production and consumption and general economic and industry-specific conditions
- Prepare forecasts of income and expenditure, interest rates and exchange rates
- Analyze factors which determine economic growth and advise government agencies on policies to increase economic activities
- Analyze factors which determine labour force participation, employment, wages, unemployment and other labour market outcomes
- Study mathematical formulae and statistical techniques and apply them to the testing and quantifying of economic theories and the solution of economic problems
- Study the nature of money, credit and the operation of banks and other financial institutions to develop monetary policies and forecasts of financial activity
- Monitor economic data to assess the effectiveness, and advise on the appropriateness, of monetary and fiscal policies
- Examine problems related to the economic activity of individual companies
- Examine financial methods, production costs and techniques and marketing policies to recommend possible improvements
- Examine statistical data on the exchange of goods and services among nations

- Forecast production and consumption of renewable resources and supply, consumption and depletion of non-renewable resources
- Conduct research on market conditions in local, regional or national area to set sales and pricing levels for goods and services, to assess market potential and future trends and to develop business strategies
- Monitor regional and local economic trends
- Study regulatory processes and provide material in support of legal proceedings with government and other parties.

Employment requirements

- A master's degree in economics or in a related discipline such as business administration or statistics is usually required.
- A doctorate in economics may be required.

Additional information

- Progression to managerial positions in economics is possible with experience.

41402 Business development officers and market researchers and analysts

Business development officers and market researchers and analysts conduct research, provide statistical and analytical supports, identify market trends and potential opportunities, formulate policies and manage programs to stimulate industrial and commercial business investment or tourism in urban and rural areas, or to promote commercial or industrial products and services. They are employed by government departments, international organizations, marketing and analytics firms and business associations or may be self-employed.

Illustrative example(s)

- business development officer
- community economic development consultant
- economic development officer
- industrial development officer
- market researcher
- marketing analyst
- marketing researcher
- regional development analyst
- tourism development officer
- tourism industry consultant

Inclusion(s)

- economic forecaster
- economic research officer

Exclusion(s)

- Development officer - fundraising (See 11202-Professional occupations in advertising, marketing and public relations)
- Economic development director (See 40011-Government managers - economic analysis, policy development and program administration)
- Economists and economic policy researchers and analysts (41401)

- Financial and investment analysts (11101)
- International aid and development project officer (See 41403-Social policy researchers, consultants and program officers)
- Marketing manager (See 10022-Advertising, marketing and public relations managers)
- Other financial officers (11109)
- Urban and land use planners (21202)

Main duties

This group performs some or all of the following duties:

- Develop policies and administer programs to promote industrial and commercial business investment in urban and rural areas
- Design market research questionnaires
- Conduct social or economic surveys on local, regional or national areas to assess development potential and future trends
- Plan development projects and coordinate activities with representatives of a wide variety of industrial and commercial enterprises, community and business associations and government agencies
- Assess business opportunities and develop strategies to attract venture capital
- Respond to enquiries from members of the business community and general public concerning development opportunities
- Review and evaluate commercial or industrial development proposals and provide advice on procedures and requirements for government approval
- Conduct surveys and analyze data on the buying habits and preferences of wholesale or retail consumers
- Evaluate customer service and store environments
- Conduct research on consumers, competitors and the market place to identify trends to optimize marketing strategies for industrial and commercial products
- Analyze promotional and marketing campaigns to identify improvements
- Develop social and economic profiles of urban and rural areas to encourage industrial and commercial investment and development
- Prepare reports, research papers, educational texts or articles
- Develop and apply E-commerce strategies
- Provide consultation on planning and starting of new businesses.

Employment requirements

- A bachelor's degree in economics, commerce, business administration or public administration is required.
- Certification as a certified economic developer (Ec.D.) may be required.
- Certification as a Certified Marketing Research Professional (CMRP) may be required.

Additional information

- Progression to managerial positions is possible with experience.

41403 Social policy researchers, consultants and program officers

Social policy researchers, consultants and program officers conduct research, develop policy and implement or administer programs in areas such as consumer affairs, employment, home economics, immigration, law enforcement, corrections, human rights, housing, labour, family services, foreign aid and international

development. They are employed by government departments and agencies, hospitals, educational institutions, consulting establishments, professional associations, research institutes, non-government organizations and international organizations or they may be self-employed.

Illustrative example(s)

- Aboriginal issues lobbyist
- child welfare policy analyst
- community policing program consultant
- community social development officer
- consumer advisor
- employment equity policy consultant
- home economist
- housing policy analyst
- human rights officer
- immigration and citizenship consultant
- immigration policy analyst
- Indigenous affairs officer
- international aid and development project officer
- labour policy analyst
- social policy researcher
- social services planner
- social survey researcher (except statistician)

Inclusion(s)

- Aboriginal affairs development officer
- Aboriginal employment program officer
- affirmative action advisor

Exclusion(s)

- Business development officers and market researchers and analysts (41402)
- Economists and economic policy researchers and analysts (41401)
- Government managers - health and social policy development and program administration (40010)
- Health policy researchers, consultants and program officers (41404)
- Home economics teacher - secondary school (See 41220-Secondary school teachers)
- Non-governmental organization (NGO) manager (See 40030-Managers in social, community and correctional services)
- Social and community service workers (42201)
- Social workers (41300)

Main duties

This group performs some or all of the following duties:

Social policy researchers

- Develop social programs and policies, social legislation, or proposals based on demographic, social and economic research, analysis and the evaluation of pilot projects.

Home economists

- Advise and assist consumers on the selection and proper use of food products, textiles and other consumer goods and teach household management skills. They may also provide consultative services in the areas of development and promotion of new food products, retail buying, social program administration and small business endeavours.

Housing policy analysts

- Identify and assess economic, demographic, and social developments and report on their implications for housing policy.

Immigration and citizenship consultants

- Conduct research, advise clients and prepare immigration, citizenship and visas applications. They may also represent clients at tribunals and before administrative bodies.

International aid and development project officers

- Plan, organize and administer foreign aid and international development policies and programs.

Social survey researchers

- Develop questionnaires, coordinate and conduct surveys, analyse data, and compile and interpret statistics on social issues and policy areas.

Social services planners

- Conduct research, develop social programs, assess, coordinate and develop awareness of existing social services, and ensure that duplication of services is avoided. They may also work with land use planners to determine the impact of major land use plans for transportation, housing and recreational facilities projects.

Employment requirements

- A bachelor's degree or college diploma in a social science or related discipline, or in business administration is usually required.
- A master's degree in a social science or related discipline or in business administration may be required.
- Home economists require a bachelor's degree in home economics, home economics education, human ecology, nutrition and food sciences or family and consumer studies.
- Registration is available, but voluntary, for home economists but the use of the designation "Professional Home Economist" is regulated in New Brunswick, Ontario, Manitoba and Alberta, and "Registered Professional Home Economist" in British Columbia.
- Registration with the Immigration Consultants of Canada Regulatory Council is required for regulated Canadian immigration consultants.

Additional information

- Progression to managerial positions is possible with experience.

41404 Health policy researchers, consultants and program officers

Health policy researchers, consultants and program officers conduct research, produce reports and administer health care policies and programs. They are employed by government departments and agencies, consulting establishments, universities, research institutes, hospitals, community agencies, educational institutions, professional associations, non-governmental organizations and international organizations.

Illustrative example(s)

- child health care programs planning officer
- drug and alcohol abuse consultant
- health care consultant
- health care planner
- health policy research analyst
- health promotion program officer
- health services researcher
- mental health programs consultant
- policy development officer - nursing homes

Exclusion(s)

- Education policy researchers, consultants and program officers (41405)
- Government managers - health and social policy development and program administration (40010)
- Managers in health care (30010)
- Social and community service workers (42201)
- Social policy researchers, consultants and program officers (41403)

Main duties

This group performs some or all of the following duties:

- Assist in developing government health policy by reviewing relevant literature, conducting interviews, collecting and analysing statistical data, and providing advice to senior managers and officials on issues such as health promotion, regulation, standards and financing
- Design and implement health projects or programs
- Maintain, update and manage health information databases
- Compile and analyse statistical information provided by private and public health care institutions and organizations and produce reports
- Monitor and evaluate health care programs operated by government departments and agencies or private organizations
- Assess compliance with health standards and identify remedial action if necessary
- Conduct evaluations and assessments of health projects and programs
- Provide consulting services to clients in private establishments or government departments or agencies
- Respond to internal and external program and policy information requests
- Produce newsletters, magazines and other documents to provide information to association or organization members or the general public

- Present the views of an association or organization to politicians, government officials, the media or the general public.

Health policy researchers, consultants and program officers may specialize in a particular area of health policy development, research or program administration such as addiction research.

Employment requirements

- A bachelor's degree or college diploma in health science, public administration, recreation administration or hospital administration, or a bachelor's degree in social science, is required.
- A graduate degree in health, social science or an administrative discipline may be required.
- Several years of experience in the health field as a health care professional or as a community or social service worker are usually required.

Additional information

- Progression to managerial positions is possible with experience.

41405 Education policy researchers, consultants and program officers

Education policy researchers, consultants and program officers conduct research, produce reports and administer elementary, secondary and post-secondary education policies and programs. They are employed by government departments, school boards, research institutes, professional associations and educational and other organizations throughout the public and private sectors, or they may be self-employed.

Illustrative example(s)

- curriculum developer
- curriculum planner
- education consultant
- education outreach program coordinator
- education policy officer
- education policy supervisor
- education program coordinator
- education program officer
- education researcher
- special education coordinator

Inclusion(s)

- course coordinator - college
- course coordinator - secondary school
- course coordinator - university
- language assessor
- online course coordinator - college
- online course coordinator - secondary school
- online course coordinator - university
- school inspector

Exclusion(s)

- College and other vocational instructors (41210)
- Educational counsellors (41320)
- Elementary school and kindergarten teachers (41221)
- Government managers - education policy development and program administration (40012)
- Psychology assistant (except university) (See 41403-Social policy researchers, consultants and program officers)
- Secondary school teachers (41220)

Main duties

This group performs some or all of the following duties:

- Conduct research, produce reports and administer education policies and programs
- Evaluate curriculum programs and recommend improvements
- Develop the structure, content and objectives of new programs
- Conduct statistical analyses to determine cost and effectiveness of education policies and programs
- Provide ongoing professional development, training and consultative services to teachers and other professionals throughout the public and private sector
- Develop teaching materials and other resources for program delivery
- Deliver presentations at conferences, workshops and symposia
- May supervise the work of other education policy researchers, consultants or program officers
- May administer specialized testing and assessment programs.

Employment requirements

- A bachelor's degree in education or in a discipline such as social science or business administration is required.
- A master's degree in education may be required.
- Specialized training or certification may be required.
- Several years of experience as a school teacher are usually required.
- A teacher's certificate for the province of employment is usually required when employed by provincial education ministries.

Additional information

- Progression to managerial positions is possible with experience.

41406 Recreation, sports and fitness policy researchers, consultants and program officers

Policy researchers, consultants and program officers in recreation, sports and fitness oversee and administer recreation, sports and fitness programs and activities, provide consulting services, conduct research and develop programs and policies related to recreation, sports and physical fitness. They are employed by federal, provincial and municipal governments, recreation, sports, fitness and health care facilities, retirement homes, community centres, sports and fitness consulting firms and organizations, or they may be self-employed.

Illustrative example(s)

- fitness policy analyst
- recreation consultant

- recreologist
- sports analyst
- sports and recreation consultant
- sports consultant
- sports policy analyst
- sports program supervisor

Inclusion(s)

- fitness consultant
- fitness coordinator

Exclusion(s)

- Program leaders and instructors in recreation, sport and fitness (54100)
- Recreation, sports and fitness program and service directors (50012)

Main duties

This group performs some or all of the following duties:

Recreation, sports and fitness consultants

- Provide expert advice and consulting services to communities, corporations, institutions, sports associations, community groups, corporations, schools and other organizations in the design, development and administration of sports programs and activities
- They may write proposals and public relations statements for corporations, industry and the fitness community.

Recreation, sports and fitness policy analysts

- Conduct research and develop government policies related to recreation, sports, fitness and athletic safety and standards.

Recreation, sports and fitness program supervisors

- Develop, plan and coordinate sports, fitness and recreation programs, and special sporting events.

Employment requirements

- A university degree in recreation administration, sports administration, physical education, kinesiology or related discipline combined with some work experience in a related field
or
A college diploma in a recreation, sports or fitness program combined with some experience in a related field is required.
- Recreation, sports and fitness program supervisors require experience as program leaders or instructors in recreation, sports and fitness. Certification in program specialization, such as fitness or lifesaving, may also be required.

Additional information

- Mobility among recreation, sports and fitness consultants may be restricted within individual area of expertise.
- Recreation, sports and fitness program supervisors may progress to recreation, sports and fitness management positions with experience.

41407 Program officers unique to government

Program officers unique to government are primarily concerned with the administration and operation of government institutions, such as Parliament, and activities unique to the operations of government, such as international relations, federal-provincial affairs, elections and tribunals.

Illustrative example(s)

- attaché
- elections officer
- federal-provincial relations officer
- foreign service officer
- intergovernmental affairs officer
- office of the Speaker officer
- protocol officer
- returning officer
- royal commission officer
- standing or select committee officer
- tribunal officer

Exclusion(s)

- Administrative officers (13100)
- Border services, customs, and immigration officers (43203)
- Court officer (See 14103-Court clerks and related court services occupations)
- Economists and economic policy researchers and analysts (41401)
- Employment insurance and revenue officers (12104)
- Executive assistants (12100)
- Justice of the peace (See 42200-Paralegals and related occupations)
- Social policy researchers, consultants and program officers (41403)

Main duties

This group performs some or all of the following duties:

- Advise politicians or diplomats on the social, economic and political effects of government decisions on other governments in Canada or abroad
- Explain Canadian foreign and domestic policies to governments and nationals of foreign countries, and act on behalf of Canada abroad
- Collect, monitor and analyze international pressures, issues and communications and brief on intelligence and security matters
- Plan intergovernmental meetings and conferences with officers of other municipal, provincial or federal governments
- Coordinate the logistics and administration of elections within constituencies and ensure that electoral and voting procedures are followed
- Coordinate administrative support services for legislative committees, royal commissions or tribunals
- Participate as a member of a board or tribunal
- Plan logistics and oversee diplomatic protocol of official visits to Canada by foreign politicians and dignitaries.

Employment requirements

- A bachelor's degree is usually required.
- A master's degree may be required.
- Several years of experience as a researcher, consultant or program administrator may be required.
- Foreign service officers are accepted on the basis of competitive examination.

41409 Other professional occupations in social science

Other professional occupations in social science include anthropologists, archaeologists, geographers, historians, linguists, political scientists, sociologists and other professional occupations in social science. They are employed in universities and throughout the public and private sectors.

Illustrative example(s)

- anthropologist
- archaeologist
- geographer
- gerontologist
- historian
- linguist
- political scientist
- psychometrist
- sociologist

Inclusion(s)

- criminologist

Exclusion(s)

- College and other vocational instructors (41210)
- Economists and economic policy researchers and analysts (41401)
- Mathematicians, statisticians and actuaries (21210)
- Psychologists (31200)
- Secondary school teachers (41220)
- Social policy researchers, consultants and program officers (41403)
- University professors and lecturers (41200)

Main duties

This group performs some or all of the following duties:

Anthropologists

- Conduct studies of the origin, development and functioning of human societies and cultures and of human evolution, changing physical characteristics and geographical distribution.

Archaeologists

- Study artifacts (objects and structures) to reconstruct past economic, social, political and intellectual life.

Criminologists

- Study crime, criminals, prevention and rehabilitation, and may assist and counsel individuals on their social reintegration.

Geographers

- Study and analyse the spatial distribution and interrelationship of physical, biological, cultural and social patterns.

Historians

- Conduct research into one or more phases or aspects of past human activity and interpret and document findings.

Linguists

- Study the origin, structure and development of languages and apply linguistic theory to problems in teaching, translation and communications.

Political scientists

- Conduct research into the theory, origin, development, interrelationships and functioning of political institutions, political movements and individual political behaviour.

Psychometricians

- Develop psychological tests, scales and measures, and may administer or apply and interpret such tests, scales and measures. Psychometricists administer and score psychological tests, usually under the supervision of a registered psychologist.

Sociologists

- Study the development, structure, social patterns and interrelationships of human society.

Other social science professionals

- Specialize in particular areas of social sciences and humanities disciplines. These include gerontologists (specialists in the phenomena and problems of aging), graphoanalysts (specialists in handwriting analysis) and others.

Specialization usually exists within each of these occupations.

Employment requirements

- A master's or doctoral degree in the discipline is usually required.
- In Quebec, membership in the regulatory body for criminologists is required to use the title "Criminologist".

Additional information

- Specialization within each occupation occurs through specialized university study or through experience.

42 Front-line public protection services and paraprofessional occupations in legal, social, community, education services

This major group comprises front-line public protection services and paraprofessional occupations in legal, social, community, education services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three

years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

421 Occupations in front-line public protection services

This sub-major group comprises occupations in front-line public protection services, including police officers other than commissioned, firefighters, and specialized members of the Canadian Armed Forces.

4210 Occupations in front-line public protection services

This minor group comprises occupations in front-line public protection services, including police officers other than commissioned, firefighters, and specialized members of the Canadian Armed Forces. They are employed by municipal, regional, provincial, and federal governments; and large industrial establishments that have internal firefighting services.

42100 Police officers (except commissioned)

Police officers maintain order and enforce laws and regulations. They respond to emergency calls, patrol public areas, regulate traffic, control crowds, arrest offenders and build community relationships. They are employed by municipal and federal governments and some provincial and regional governments.

Illustrative example(s)

- community relations officer - police
- constable
- crime prevention constable
- harbour police officer
- highway patrol officer
- police cadet
- police officer
- police sergeant
- railway police officer
- Royal Canadian Mounted Police (RCMP) officer

Inclusion(s)

- crime scene technician - police
- police diver

Exclusion(s)

- By-law enforcement and other regulatory officers (43202)
- Commissioned police officers and related occupations in public protection services (40040)
- Police investigators and other investigative occupations (41310)
- Private detective (See 64410-Security guards and related security service occupations)
- Sheriffs and bailiffs (43200)

Main duties

This group performs some or all of the following duties:

- Respond to emergency calls and complaints, execute search warrants and arrest criminal suspects
- Patrol assigned areas on foot, horseback, bicycle and motorized vehicles to maintain public safety and order and to enforce laws and regulations
- Prepare reports to record incidents and patrol activities and to provide testimony in courts of law
- Provide emergency assistance to victims of accidents, crimes and natural disasters
- Monitor traffic to ensure motorists observe traffic regulations and test persons suspected of driving under the influence of alcohol and drugs
- Control crowds at public events and protests and monitor suspicious and violent behaviour
- Participate in crime prevention, public information, safety and community relations programs
- Perform daily administrative tasks in support of law enforcement activities, such as maintaining equipment and information files
- May assist police investigators in criminal investigations.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in police technology is required in Québec and usually required in other provinces and territories.
- A three- to six-month police training program is required.
- Physical agility, strength, fitness and vision requirements must be met, and psychological or other tests are also required.
- Specialized training or certification may be required for certain areas of policing.

Additional information

- Progression to investigative positions is possible with additional training and experience.

42101 Firefighters

Firefighters carry out firefighting and fire prevention activities, and assist in other emergencies. They are employed by municipal, provincial and federal governments and by large industrial establishments that have internal firefighting services. Apprentices are also included in this unit group.

Illustrative example(s)

- airport firefighter
- fire captain
- firefighter
- firefighter lieutenant
- industrial firefighter
- shipboard firefighter

Exclusion(s)

- Fire chiefs and senior firefighting officers (40041)
- Forest firefighter (See 84111-Silviculture and forestry workers)
- Paramedic (See 32102-Paramedical occupations)

Main duties

This group performs some or all of the following duties:

- Respond to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies
- Rescue victims from burning buildings and accident sites
- Control and extinguish fires using manual and power equipment, such as axes, water hoses, aerial ladders and hydraulic equipment and various firefighting chemicals
- Administer first aid and other assistance
- Ensure proper operation and maintenance of firefighting equipment
- Prepare written reports on fire incidents
- Inform and educate the public on fire prevention
- Train to maintain high level of physical fitness
- Assist the public, the police and emergency organizations during times of major disasters
- May participate as members of a trauma or emergency response team and provide paramedical aid to accident victims or ill persons
- May supervise and coordinate the work of other firefighters
- May conduct building inspections to ensure compliance with fire code.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in fire protection technology, fire science or a related field and
A period of supervised practical training is usually required.
- Firefighting and emergency medical care training courses are provided and vary in length depending on the requirements of different fire departments or services.
- Certification for firefighters is compulsory in Nova Scotia, Quebec, Ontario, Manitoba and Alberta, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Experience as a volunteer firefighter may be an advantage.
- Physical agility, strength, fitness and vision requirements must be met.
- Several years of experience are required for senior firefighters, such as lieutenants and captains.

Additional information

- Progression to senior positions such as fire chief is possible with additional training and several years of experience.

42102 Specialized members of the Canadian Armed Forces

Specialized members of the Canadian Armed Forces provide critical technological support for military armament. They are primarily responsible for the maintenance, inspection and technical support of all Canadian Army equipment. They also follow the military and strategic policies established by the leadership of the Canadian Army, the Royal Canadian Airforce, and the Royal Canadian Navy.

Illustrative example(s)

- air weapons systems technician
- ammunition technician

- weapons engineering technician
- weapons technician

Exclusion(s)

- Commissioned officers of the Canadian Armed Forces (40042)
- Operations members of the Canadian Armed Forces (43204)
- Primary combat members of the Canadian Armed Forces (44200)

Main duties

This group performs some or all of the following duties:

- Certify ammunition, explosive items, munitions and non-munitions scrap to different degrees of classification
- Inspect, test, identify faults, adjust, repair, recondition and modify electrical, electromechanical, electronic, electro-optic and mechanical equipment, optical instruments, and control systems for weapons and missiles
- Maintain and repair machine-guns and non-guided anti-tank weapons, grenade projectors, mortars and launcher systems
- Test, inspect and repair air weapons systems
- Compile test logs, evaluation reports, equipment maintenance documentation and read and interpret electronic drawings.

Employment requirements

- Completion of secondary school is required.
- Three months of basic military training is required and provided.
- Occupational qualification training of at least two years is required.
- Specialized training in the operation and maintenance of military equipment and systems is provided.

Additional information

- Members of this unit group who demonstrate the required abilities and potential will be offered advanced training.

422 Paraprofessional occupations in legal, social, community and education services

This sub-major group comprises paraprofessional occupations in legal, social, community and education services, including paralegals and related occupations; social and community service workers; early childhood educators and assistants; instructors of persons with disabilities; and religion workers.

4220 Paraprofessional occupations in legal, social, community and education services

This minor group comprises paraprofessional occupations in legal, social, community and education services, including paralegals and related occupations; social and community service workers; early childhood educators and assistants; instructors of persons with disabilities; and religion workers. They are employed by government, and government agencies; law firms, legal departments, and trademark development and record search companies; social service and mental health agencies, group homes, shelters, and substance abuse centres; schools and school boards; correctional facilities, and prisons; child-care centres, daycare centres, kindergartens, and agencies for exceptional children; rehabilitation centres, and specialized educational institutes; driving schools, fabric retailers, and other commercial establishments; churches, synagogues, temples, and other places of worship; and hospitals; or they may be self-employed.

42200 Paralegals and related occupations

Paralegals prepare legal documents and conduct research to assist lawyers or other professionals. Independent paralegals provide legal services to the public as allowed by government legislation, or provide paralegal services on contract to law firms or other establishments. Justices of the peace administer oaths, issue subpoenas, summonses and warrants and perform other court-related duties such as conducting bail hearings. Notaries public administer oaths, take affidavits, sign legal documents and perform other activities according to the scope of their practice. Trademark agents advise clients on intellectual property matters. Paralegals are employed by law firms, by record search companies and in legal departments throughout the public and private sectors. Independent paralegals are usually self-employed. Justices of the peace are employed by federal, provincial, municipal, and territorial courts. Notaries public are employed by government and in the public and private sectors or they may be self-employed. Trademark agents are employed by law firms and legal departments throughout the public and private sectors, trademark development and search firms or they may be self-employed.

Illustrative example(s)

- commercial law clerk
- commissioner of affidavits
- commissioner of marriages
- corporate paralegal
- family law paralegal
- independent paralegal
- judicial officer
- justice of the peace
- land titles examiner
- legal researcher
- notary public
- paralegal
- real estate law clerk
- registrar of bankruptcy
- title searcher
- trademark agent

Inclusion(s)

- law clerk
- prothonotary

Exclusion(s)

- Articling law student (See 41101-Lawyers and Quebec notaries)
- Legal administrative assistants (13111)
- Patent agent (See 41400-Natural and applied science policy researchers, consultants and program officers)
- Quebec notary (See 41101-Lawyers and Quebec notaries)
- Trademark lawyer (See 41101-Lawyers and Quebec notaries)

Main duties

This group performs some or all of the following duties:

Paralegals

- Assist lawyers by interviewing clients, witnesses and other related parties, assembling documentary evidence, preparing trial briefs, and arranging for trials
- Assist lawyers in preparation for mediation and judicial dispute resolutions
- Under the supervision of a lawyer, prepare wills, real estate transactions and other legal documents, court reports and affidavits
- Research records, court files and other legal documents
- Draft legal correspondence and perform general office and clerical duties.

Independent paralegals

- Represent clients in small claims court and in other lower court proceedings, at tribunals and before administrative bodies
- Advise clients and take legal action on landlord and tenant matters, traffic violations, name changes and other issues within their jurisdictions.

Justices of the peace

- Issue subpoenas, summonses and warrants, including search warrants
- Receive affidavits, declarations and affirmations
- Administer oaths
- Conduct bail hearings
- Release defendants on judges' orders and explain rights and obligations
- Hear evidence at trials on summary conviction offences and may preside over trials of criminal offences at the discretion of the chief judge of the jurisdiction or as provided for in federal, provincial, or territorial statutes
- Perform civil marriages
- Register wills, probate, bankruptcy, etc.

Notaries public

- Administer oaths and take affidavits and depositions
- Witness and certify the validity of signatures on documents
- May draft contracts, prepare promissory notes and draw up wills, mortgages and other legal documents
- May arrange probates and administer the estates of deceased persons.

Trademark agents

- Advise clients on intellectual property matters and represent clients before the Registrar of Trade-Marks on matters including prosecution of applications for registration of trademarks
- Advise on the registrability of trademarks, trademark licensing requirements, transfer of intellectual property and protection of existing trademark rights
- Represent clients at proceedings before the Trade Marks Opposition Board and in related proceedings
- May represent clients internationally in consultation with foreign associates and attorneys.

Employment requirements

- Paralegals in law firms require a bachelor's degree in law or a law college diploma and in-house training from a law firm or other legal establishment.
- Independent paralegals require knowledge of legal principles and procedures usually obtained through industry-sponsored courses and through experience, or through completion of a community college paralegal program.
- Paralegals require a licence to perform advanced legal services.
- Justices of the peace requirements can vary from a background in law and the justice system, completion of a justice registrar, justice of the peace or other court training program depending on their duties and responsibilities.
- Justices of the peace in the provinces are appointed by the lieutenant governor in council and, in the territories, by federally appointed territorial commissioners.
- Notaries public usually require a university degree in law or a related field.
- Notaries public are appointed after examination and certification of their qualifications by the governing judiciary in their province or territory. All appointments have specific limitations on the activities they can perform and for specific periods of time.
- Notaries public require a provincial licence. In British Columbia, membership in the Society of Notaries Public is also required.
- To be licensed, trademark agents are required to work in the area of trademark law, including the preparation and prosecution of trademark applications for registration, for two years and to successfully complete the examination conducted jointly by the Intellectual Property Institute of Canada and the Registrar of Trade-Marks, Canadian Intellectual Property Office or either one of the above and to be a lawyer entitled to practise in Canada.
- Trademark agents require registration with the federal Trade-Mark Office.

Additional information

- Notaries public usually receive in-house training and perform their duties in rural or remote areas or in the business offices in which they are employed.
- The duties and responsibilities of justices of the peace vary significantly depending on the level of their authority. They may be employed part-time on a fee-for-service basis in small communities. Their duties range from performing civil marriages, receiving affidavits and similar documents, to presiding in courts and hearings and determining prosecutions under provincial/territorial and federal laws.

42201 Social and community service workers

Social and community service workers administer and implement a variety of social assistance programs and community services, and assist clients to deal with personal and social problems. They are employed by social service and government agencies, mental health agencies, group homes, shelters, substance abuse centres, school boards, correctional facilities and other establishments.

Illustrative example(s)

- Aboriginal outreach worker
- addictions worker
- child and youth worker
- community development worker
- community service worker
- crisis intervention worker
- developmental service worker

- drop-in centre worker
- family service worker
- group home worker
- income maintenance officer - social services
- life skills instructor
- mental health worker
- rehabilitation worker - social services
- social services worker
- veteran services officer
- welfare and compensation officer
- women's shelter supervisor
- youth worker

Inclusion(s)

- residential counsellor - group home

Exclusion(s)

- Activities leader - seniors (See 54100-Program leaders and instructors in recreation, sport and fitness)
- Educational counsellors (41320)
- Instructors of persons with disabilities (42203)
- Managers in social, community and correctional services (40030)
- Social workers (41300)
- Therapists in counselling and related specialized therapies (41301)

Main duties

This group performs some or all of the following duties:

- Review client background information, interview clients to obtain case history and prepare intake reports
- Assess clients' relevant skill strengths and needs
- Assist clients to sort out options and develop plans of action while providing necessary support and assistance
- Assess and investigate eligibility for social benefits
- Refer clients to other social services or assist clients in locating and utilizing community resources including legal, medical and financial assistance, housing, employment, transportation, day care and other services
- Counsel clients living in group homes and halfway houses, supervise their activities and assist in pre-release and release planning
- Participate in the selection and admission of clients to appropriate programs
- Implement life skills workshops, substance abuse treatment programs, behaviour management programs, youth services programs and other community and social service programs under the supervision of social services or health care professionals
- Meet with clients to assess their progress, give support and discuss any difficulties or problems
- Assist in evaluating the effectiveness of treatment programs by tracking clients' behavioural changes and responses to interventions
- Advise and aid recipients of social assistance and pensions

- Provide crisis intervention and emergency shelter services
- Implement and organize the delivery of specific services within the community
- Maintain contact with other social service agencies and health care providers involved with clients to provide information and obtain feedback on clients' overall progress
- Mobilise and coordinate volunteer resources and activities for a range of organizations such as human service agencies, health care facilities, arts and sports centres, etc.
- May maintain program statistics for purposes of evaluation and research
- May supervise social service support workers and volunteers.

Employment requirements

- Completion of a college or university program in social work, child and youth care, psychology or other social science or health-related discipline is usually required.
- Previous work experience in a social service environment as a volunteer or in a support capacity may replace formal education requirements for some occupations in this unit group.
- Social service workers may be required to be a member of a provincial regulatory body in some provinces.

Additional information

- Progression to professional occupations in social services, such as family and marriage counsellors, social workers, and probation and parole officers, is possible with additional training and experience.

42202 Early childhood educators and assistants

Early childhood educators plan, organize and implement programs for children between the ages of infancy and 12 years. Early childhood educator assistants provide care for infants and preschool- to school-age children under the guidance of early childhood educators. Early childhood educators and assistants lead children in activities to stimulate and develop their intellectual, physical and emotional growth and ensure their security and well-being. They are employed in child-care centres, daycare centres, kindergartens, agencies for exceptional children and other settings where early childhood education services are provided. Supervisors of early childhood educators and assistants are included in this unit group.

Illustrative example(s)

- child care worker assistant
- daycare helper
- daycare supervisor
- daycare worker
- early childhood assistant
- early childhood education worker
- early childhood educator (ECE)
- early childhood educator (ECE) assistant
- early childhood educator - preschool
- early childhood program staff assistant
- early childhood supervisor
- preschool helper
- preschool supervisor

Inclusion(s)

- daycare teacher
- educator assistant - junior kindergarten
- nursery school teacher

Exclusion(s)

- Child-care centre administrator (See 40030-Managers in social, community and correctional services)
- Elementary and secondary school teacher assistants (43100)
- Elementary school and kindergarten teachers (41221)

Main duties

This group performs some or all of the following duties:

Early childhood educators

- Develop and implement child-care programs that support and promote the physical, cognitive, emotional and social development of children
- Lead activities by telling or reading stories, teaching songs, taking children to local points of interest and providing opportunities to express creativity through the media of art, dramatic play, music and physical activity
- Plan and maintain an environment that protects the health, security and well-being of children
- Assess the abilities, interests and needs of children and discuss progress or problems with parents and other staff members
- Observe children for signs of potential learning or behavioural problems and prepare reports for parents, guardians or supervisor
- Guide and assist children in the development of proper eating, dressing and toilet habits
- Establish and maintain collaborative relationships with co-workers and community service providers working with children
- May plan and organize activities for school-age children in child-care programs before and after regular school hours
- May supervise and coordinate activities of other early childhood educators and early childhood educator assistants.

Early childhood educator assistants

- Support early childhood educators in carrying out programs that promote the physical, cognitive, emotional and social development of children
- Engage children in activities by telling stories, teaching songs and preparing crafts
- Prepare snacks and arrange rooms or furniture for lunch and rest periods
- Assist with proper eating, dressing and toilet habits
- Submit written observations on children to early childhood educators or supervisors
- Maintain daycare equipment and assist in housekeeping and cooking duties
- Attend staff meetings to discuss progress and problems of children
- May assist early childhood educators or supervisors in keeping records.

Employment requirements

Early childhood educators

- Completion of a two- to four-year college program in early childhood education or
A bachelor's degree in child development is required.
- Licensing is required in Ontario and certification is required in British Columbia for early childhood educators. Licensing for early childhood educators is usually required in all other provinces and territories.

Early childhood educator assistants

- Completion of secondary school is required.
- Experience in child care is required.
- Completion of an early childhood education assistant certificate program or post-secondary courses in early childhood education may be required.
- Licensing by a provincial or territorial association as an early childhood educator may be required.

Additional information

- Progression to senior positions, such as daycare supervisor, is possible with several years of experience or with experience and advanced ECE qualification levels.

42203 Instructors of persons with disabilities

Instructors of persons with disabilities teach children and adults using a variety of techniques to facilitate communication, rehabilitation, social skills and increased independence. They are employed in rehabilitation centres, specialized educational institutes and throughout the school system.

Illustrative example(s)

- braille instructor
- instructor of persons who are deaf
- instructor of persons who are hard of hearing
- instructor of persons with a learning disability
- instructor of persons with a mobility impairment
- instructor of persons with a visual impairment
- instructor of persons with special needs
- lip-reading instructor
- orientation and mobility instructor
- sign language instructor
- teacher for persons with intellectual disabilities

Exclusion(s)

- Occupational therapy rehabilitation consultant (See 31203-Occupational therapists)
- Special education technician - social and community services (See 42201-Social and community service workers)
- Special needs educational assistant (See 43100-Elementary and secondary school teacher assistants)
- Special needs teacher - elementary school (See 41221-Elementary school and kindergarten teachers)

- Special needs teacher - secondary school (See 41220-Secondary school teachers)
- Speech and hearing therapist (See 31112-Audiologists and speech-language pathologists)

Main duties

This group performs some or all of the following duties:

- Develop individualized education and intervention plans based on special needs of client to facilitate their readaptation and independence objectives
- Assess individuals in areas such as physical limitations, orientation and mobility skills, and cognitive, social and emotional barriers to establish client rehabilitation or adaptation goals
- Assist individuals with physical, intellectual, visual and hearing disabilities or multiple disorders to develop life skills and provide job training
- Instruct individuals with disabilities and their families in the use of rehabilitative techniques, prosthetic devices, wheelchairs and other equipment designed to maximize clients' independence and potential
- Instruct persons with a visual impairment in reading and writing braille and in the use of special equipment or supports such as human or animal guides, long canes and other adaptive mobility devices
- Instruct persons who are hard of hearing or deaf in lip-reading, finger spelling and sign language according to individual communication needs
- Instruct persons who are hard of hearing or deaf in the formation and development of sounds for speech using hearing aids, and other devices and techniques
- Collaborate with specialists, such as rehabilitation counsellors, speech-language pathologists and occupational therapists, to develop programs for clients' special needs.

Employment requirements

- Completion of a college program in special education, rehabilitation, orientation and mobility, visual impairment, hearing impairment or intellectual disability is required.
- A bachelor's degree in special education or a related field such as social work or psychology may be required.

42204 Religion workers

Religion workers include brothers, nuns, monks, religious education workers and others who provide support to ministers of religion or to a religious community and who perform certain functions associated with the practice of a religion. They may perform these duties in churches, synagogues, temples or other places of worship; in institutions such as schools, hospitals and prisons; or in industrial facilities, corporate enterprises; or they may work in private practice.

Illustrative example(s)

- brother/sister - religion
- Christian science practitioner
- deacon
- missionary
- monk
- nun
- pastoral animator
- religious education worker
- Salvation Army field worker

Inclusion(s)

- cantor

Exclusion(s)

- Medical missionary (See 31102-General practitioners and family physicians)
- Religious leaders (41302)

Main duties

This group performs some or all of the following duties:

- Assist at services of public worship and religious rites
- Provide religious education, spiritual guidance and moral support to members of a religious community
- Conduct outreach activities and facilitate community involvement
- Administer programs providing food, clothing and shelter
- May plan, organize and lead worship services and church activities for a specific audience.

Employment requirements

- Completion of college, university or other program in religious studies may be required, depending on the particular occupation and religion.
- There may be other employment requirements depending on the particular occupation and religion.

43 Assisting occupations in education and in legal and public protection

This major group comprises assisting occupations in education and in legal and public protection. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

431 Assisting occupations in educational

This sub-major group comprises assisting occupations in education, including elementary and secondary school teacher assistants, and other instructors.

4310 Assisting occupations in education

This minor group comprises assisting occupations in education, including elementary and secondary school teacher assistants, and other instructors. They are employed by public and private elementary, secondary, and special needs schools and treatment centres; driving schools, fabric retailers and other commercial establishments; or they may be self-employed.

43100 Elementary and secondary school teacher assistants

Elementary and secondary school teacher assistants support students, and assist teachers and counsellors with teaching and non-instructional tasks. They assist in areas of personal care, teaching and behaviour management under the supervision of teachers or other child care professionals. They are employed in public and private elementary, secondary and special needs schools and treatment centres.

Illustrative example(s)

- educational assistant
- educational resources assistant
- homework assistant
- remedial education aide
- special education assistant

Exclusion(s)

- Early childhood educators and assistants (42202)
- Elementary school and kindergarten teachers (41221)
- Instructors of persons with disabilities (42203)
- Post-secondary teaching and research assistants (41201)
- Student monitors, crossing guards and related occupations (45100)

Main duties

This group performs some or all of the following duties:

- Assist students with integration into the classroom and school setting
- Help students individually or in small groups with assignments and reinforce learning and retention concepts under the supervision of the classroom teacher
- Assist students with special needs using techniques such as sign language, braille and remedial programs
- Monitor and report student progress to classroom teacher
- Accompany and supervise students during activities in school gymnasiums, laboratories, libraries, resource centres and on field trips
- May assist teacher in the operation of projectors, tape recorders and other audio-visual or electronic equipment
- May assist in school library or office and perform other duties assigned by the school principal
- May monitor students during recess, at noon hour or during the day.

Employment requirements

- Completion of secondary school is required.
- Teacher assistants usually require completion of a 10-month college program in teaching assistance, educational assistance or other social science program.
- Teacher assistants who help students with special needs usually require specialized training and experience.

Additional information

- Mobility to other occupations related to child care and adolescent supportive instruction is possible with experience.

43109 Other instructors

Other instructors teach courses, such as motor vehicle or motorcycle driving, sailing and navigation, sewing or other courses, which are outside of educational institutions. They are employed by driving schools, fabric retailers and other commercial establishments or they may be self-employed. This unit group also includes modelling and

finishing school instructors, driver's licence examiners, who are employed by provincial governments and tutors who provide instruction in elementary or secondary school subjects.

Illustrative example(s)

- driver's licence examiner
- driving instructor
- modelling instructor
- motorcycle driving instructor
- sewing instructor - non-vocational

Inclusion(s)

- truck driving instructor

Exclusion(s)

- College and other vocational instructors (41210)
- Elementary school and kindergarten teachers (41221)
- Secondary school teachers (41220)

Main duties

This group performs some or all of the following duties:

Driving instructors

- Instruct individuals on proper motor vehicle driving skills and traffic regulations
- Demonstrate and explain the handling and mechanical operation of motor vehicles
- Supervise individuals during practice driving.

Driver's licence examiners

- Conduct road test examinations
- Evaluate the driving ability of applicants for driver's licences.

Sewing instructors

- Give instruction to students in techniques and skills of sewing, tailoring and dressmaking.

Modelling instructors

- Give instruction on modelling techniques for fashion shows and magazine advertising.

Employment requirements

- Enrollment in or completion of post-secondary school in a related discipline may be required for tutors, secondary and elementary school subjects.
- Expertise in the field of instruction must be demonstrated.
- Driving instructors must obtain special licensing as a driving instructor in the province of employment.
- Certification by the Canadian Yachting Association may be required for sailing and navigation instructors.

432 Assisting occupations in legal and public protection

This sub-major group comprises assisting occupations in legal and public protection, including sheriffs and bailiffs, including correctional service officers; by-law enforcement and other regulatory officers; border services, customs, and immigration officers; and operations members of the Canadian Armed Forces.

4320 Assisting occupations in legal and public protection

This minor group comprises assisting occupations in legal and public protection, including Sheriffs and bailiffs; correctional service officers; by-law enforcement and other regulatory officers; border services, customs, and immigration officers; and operations members of the Canadian Armed Forces. They are employed by provincial and territorial courts; federal, provincial, and municipal governments; provincial and municipal agencies; and in private service as agents for creditors.

43200 Sheriffs and bailiffs

Sheriffs execute and enforce court orders, warrants and writs, participate in seizure and sale of property and perform courtroom and other related duties. Bailiffs serve legal orders and documents, seize or repossess properties, evict tenants and perform other related activities. Sheriffs and bailiffs must usually complete a training program offered by the province to work in the provincial courts. They are employed by federal, provincial, territorial and municipal courts, and bailiffs may be employed as officers of the court or in private service as agents for creditors.

Illustrative example(s)

- bailiff
- deputy sheriff
- sheriff
- sheriff's bailiff
- sheriff's officer

Exclusion(s)

- Correctional service officers (43201)
- Court clerks and related court services occupations (14103)
- Probation and parole officers (41311)

Main duties

This group performs some or all of the following duties:

- Serve statements of claims, summonses, warrants, jury summonses, orders to pay spousal support, and other court orders
- Serve writs of execution by seizing and selling property and distributing the proceeds according to court decisions
- Locate property and make seizures and removals under various acts of Parliament
- Provide courthouse security for judges and perimeter security for the courthouse
- Escort prisoners to and from courts and correctional institutions
- Prepare comprehensive reports and affidavits and maintain records
- Attend court, escort witnesses and assist in maintaining order
- Ensure security support services for sequestered juries
- Issue warrants for imprisonment, arrest or apprehension.

Employment requirements

- Completion of secondary school is required.
- A college diploma or bachelor's degree in legal studies is usually required.
- Sheriffs require experience as a deputy sheriff or bailiff and/or in custodial/escort or security work.
- Bailiffs usually require some work experience related to law enforcement as well as knowledge of relevant statutes and laws.
- Mandatory provincial training may be required.
- Membership in the provincial regulatory body is mandatory in Quebec.

Additional information

- Progression to supervisory positions is possible with additional experience and in-house training.
- Sheriffs and bailiffs may also serve as court officers (14.103), depending on the location and size of the courthouse.

43201 Correctional service officers

Correctional service officers guard offenders and detainees and maintain order in correctional institutions and other places of detention. Primary workers develop women offender's correctional plan and work with other service officers in the correctional team. They are employed by federal, provincial and municipal governments. Correctional service officers who are supervisors are included in this unit group.

Illustrative example(s)

- correctional facility guard
- correctional officers supervisor
- correctional service officer
- primary worker/kimisinaw - correctional service
- prison guard

Inclusion(s)

- detention attendant

Exclusion(s)

- Detention home worker (See 42201-Social and community service workers)
- Managers in social, community and correctional services (40030)
- Probation and parole officers (41311)
- Social workers (41300)

Main duties

This group performs some or all of the following duties:

- Observe conduct and behaviour of offenders and detainees to prevent disturbances and escapes
- Supervise offenders during work assignments, meals and recreation periods
- Patrol assigned area and report any problems to supervisor
- Conduct security checks and scanning of visitors, inmates and their cells, working areas and recreational activity areas

- Observe behaviour of offenders and prepare reports
- Escort detainees in transit and during temporary leaves
- Prepare admission, program, release, transfer and other reports
- May supervise and coordinate work of other correctional service officers
- May develop offenders' correctional plan and facilitate their participation in reintegration programs in collaboration with psychologists, behavioral counsellors, parole officers and others.

Employment requirements

- Completion of secondary school is required.
- Post-secondary education in correctional services, police studies or criminology is required in New Brunswick, Quebec, Alberta and Prince Edward Island.
- Correctional officer recruits must successfully complete the Correctional Service of Canada training course to be employed by federal institutions.
- Correctional officer recruits are usually required to complete a basic training course to be employed by provincial/territorial institutions.
- Physical agility, strength and fitness requirements must be met.
- Correctional service supervisors require experience as a correctional service officer.
- First aid certification and cardiopulmonary resuscitation (CPR) training are usually required.

Additional information

- Primary workers are the primary daily contact for women offenders.

43202 By-law enforcement and other regulatory officers

By-law enforcement and other regulatory officers enforce by-laws and regulations of provincial and municipal governments. They are employed by provincial and municipal governments and agencies.

Illustrative example(s)

- animal control officer
- by-law enforcement officer
- commercial transport inspector
- garbage collection inspector
- liquor licence inspector
- parking control officer
- property standards inspector
- taxi inspector
- zoning inspector

Exclusion(s)

- Employment insurance and revenue officers (12104)
- Engineering inspectors and regulatory officers (22231)
- Occupational health and safety specialists (22232)
- Police officers (except commissioned) (42100)
- Sheriffs and bailiffs (43200)

Main duties

This group performs some or all of the following duties:

Animal control officers

- Respond to citizen complaints concerning stray domestic animals, livestock and wildlife
- Issue warnings and citations to owners
- Impound lost, homeless and dangerous animals.

By-law enforcement officers

- Enforce municipal and provincial regulations
- Investigate complaints
- Issue warnings and citations to commercial and residential property owners and occupants.

Commercial transport inspectors

- Inspect commercial vehicles to ensure compliance with regulations governing load restrictions, the transportation of hazardous materials and public safety.

Garbage collection inspectors

- Investigate complaints concerning infractions of garbage collection by-laws.

Liquor licence inspectors

- Conduct inspections of licensed establishments
- Advise licensees on laws and regulations
- Report contravention of laws and regulations to provincial liquor control boards and agencies.

Parking control officers

- Enforce parking by-laws on city streets, regional roads and municipal properties.

Taxi inspectors

- Inspect taxicabs for mechanical reliability, cleanliness, licensing and meter accuracy
- Investigate public complaints, issue citations and prepare reports
- Give evidence to city councils, taxi commissions and in court.

Zoning inspectors

- Investigate properties in violation of zoning and related by-laws, after receiving requests for licence clearances pertaining to zoning and related by-laws, and on receipt of building permit applications.

By-law enforcement officers may specialize in the enforcement of one specific by-law.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program or courses in law and security or other related field
or
Experience in a related administrative or regulatory occupation is usually required.

- Zoning inspectors or zoning enforcement officers may require a college diploma as a civil engineering or architectural technologist or technician and several years of experience in enforcement and/or building construction or a related field.
- On-the-job training is provided.

43203 Border services, customs, and immigration officers

Border services, customs, and immigration officers administer and enforce laws and regulations related to immigration, customs and border crossing. They are employed by government agencies.

Illustrative example(s)

- border services officer (BSO)
- customs inspector
- customs officer
- immigration agent - government services
- immigration examining officer

Exclusion(s)

- Employment insurance and revenue officers (12104)
- Government managers - economic analysis, policy development and program administration (40011)
- Government managers - health and social policy development and program administration (40010)
- Social policy researchers, consultants and program officers (41403)

Main duties

This group performs some or all of the following duties:

Border services and customs officers

- Conduct interviews, using inspections and information-seeking techniques, at border points as part of primary and secondary inspections for immigration, food, plant and animals, and customs program functions
- Inspect baggage to detect undeclared merchandise, or contraband
- Inform manufacturers and shippers of customs and laws and procedures
- Observe fabrication of articles affected by customs laws and conduct appraisals
- Board carriers arriving from foreign countries to determine nature of cargo to ensure compliance with customs and commerce laws
- Inspect goods imported by mail
- Apply applicable legislation, policies, and procedure when screening and/or inspecting people and goods
- May conduct an arrest, detention, or conduct personal search of individuals suspected of having committed a criminal offence under the Customs Act or certain other designated Criminal Code offences until police intervention is possible
- Operate firearms and use defensive tactics and physical force when necessary in the performance of duties.

Immigration officers

- Determine admissibility of persons seeking entry into Canada by examining documents and conducting interviews
- Grant landed-immigrant status, admit persons or order detention or deportation

- Locate and apprehend persons presumed to be infringing on immigration laws
- Assist in the removal of deported people by seeking authorization from receiving countries and securing necessary travel documents
- Appear as a witness in cases related to immigration appeals.

Employment requirements

- Completion of secondary school is required.
- A four-week online training and a four-and-half-month specialized training at the CBSA College are required for border services officers.
- Successful pass of the officer trainee entrance exam (OTEE), successful completion of the Canadian Firearms Safety Course (CGSC) and the Canadian Restricted Firearms Safety Course (CRFSC) is required for border services officers.
- Must pass psychological assessment, physical abilities requirement evaluation (PARE) and medical exam to be a border services officer.
- Border services student officers must complete Control and Defensive Tactics (CDT) training.
- Completion of specialized government training is usually required.
- A driver's license is required.

Additional information

- Border services officers must be willing to work anywhere in Canada, including rural and remote areas.
- Progression to managerial positions in these fields is possible with experience.

43204 Operations members of the Canadian Armed Forces

Operations members of the Canadian Armed Forces provide operational support to soldiers including the proper functioning and testing of military equipment such as vehicles, ships and weapons. They follow the military and strategic policies established by the leadership of the Canadian Army, the Royal Canadian Airforce and the Royal Canadian Navy.

Illustrative example(s)

- airborne electronic sensor operator
- assault pioneer
- combat engineer
- naval combat information operator
- sonar operator

Exclusion(s)

- Commissioned officers of the Canadian Armed Forces (40042)
- Primary combat members of the Canadian Armed Forces (44200)
- Specialized members of the Canadian Armed Forces (42102)

Main duties

This group performs some or all of the following duties:

- Analyze equipment and system performance on all combat information equipment
- Maintain and operate engineering equipment, including weapons, vehicles, heavy equipment and supplies

- Inspect motors in operation, road test motor vehicles, and test automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Configure and operate intelligence, surveillance and recognizance systems
- Oversee the construction of tools and devices to enable infantry soldiers to cross natural and man-made obstacles and break through enemy defenses
- Operate weapons and missile related equipment for defense.

Employment requirements

- Completion of secondary school is required.
- Three months of basic military training is required and provided.
- Occupational qualification training of at least six months is required.
- Specialized training in the operation and maintenance of military equipment and systems is provided.

Additional information

- Members of this unit group who demonstrate the required abilities and potential will be offered advanced training.

44 Care providers and legal and public protection support occupations

This major group comprises care providers (including home care providers) and legal and public protection support occupations (including primary combat members of the Canadian Armed Forces). These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

441 Home care provider occupations

This sub-major group comprises home care provider occupations, including home child care providers, and home support workers, caregivers and related occupations.

4410 Home care provider occupations

This minor group comprises home care provider occupations, including home child care providers, and home support workers, caregivers and related occupations. They are employed by private households; child-care, home care, and support agencies; in other non-institutional, residential settings; or they may be self-employed.

44100 Home child care providers

Home child care providers care for children on an ongoing or short-term basis. They care for the well-being and physical and social development of children, assist parents with child care and may assist with household duties. They provide care primarily in their own homes or in the children's homes, where they may also reside. They are employed by private households and child-care agencies, or they may be self-employed.

Illustrative example(s)

- babysitter
- child care live-in caregiver
- child care provider - private home

- nanny
- parent's helper

Inclusion(s)

- babysitter - fitness centre
- babysitter - shopping centre
- foster parent

Exclusion(s)

- Child care worker - daycare (See 42202-Early childhood educators and assistants)
- Live-in caregiver - persons with disabilities (See 44101-Home support workers, caregivers and related occupations)
- Live-in caregiver - seniors (See 44101-Home support workers, caregivers and related occupations)

Main duties

This group performs some or all of the following duties:

Home child care providers

- Supervise and care for children in employer's or own residence
- Bathe, dress and feed infants and children
- Prepare formulas and change diapers for infants
- Plan, prepare and serve meals for children and may perform other housekeeping duties
- Oversee children's activities, such as meals and rest periods, as instructed by employer
- Maintain a safe and healthy environment in the home
- Instruct children in personal hygiene
- Tend to the emotional well-being of children and support their social development
- Discipline children according to the methods requested by the parents
- Provide age-appropriate educational training through organized activities such as games, crafts, reading and outings
- Take children to and from school and appointments
- May be required to keep records of daily activities and health information regarding each child.

Foster parents

- Care for foster children, usually on an emergency or temporary basis, as a primary guardian under general direction of foster parent agency
- Consult foster parent agency supervisors for advice and when problems arise
- Administer foster care programs for foster children, as directed by foster parent agency social workers.

Employment requirements

- Completion of secondary school may be required.
- Home child care providers, parent's helpers and foster parents may require completion of a training program in child care or a related field.
- Child care or household management experience may be required.

- Demonstrated ability to perform work is usually required.
- First aid certification and cardiopulmonary resuscitation (CPR) training may be required.

Additional information

- There is mobility among occupations in this group.

44101 Home support workers, caregivers and related occupations

Home support workers, caregivers and related occupations, provide personal care and companionship for seniors, persons with disabilities and convalescent clients. They provide care in the client's residence, where they may also reside. They are employed by home care and support agencies, private households, or they may be self-employed.

Illustrative example(s)

- attendant for persons with disabilities - home care
- family caregiver
- home support worker
- live-in caregiver
- live-in caregiver - seniors
- personal aide - home support
- personal care attendant - home care
- respite worker - home support

Inclusion(s)

- doula

Exclusion(s)

- Home child care providers (44100)

Main duties

This group performs some or all of the following duties:

- Provide care and companionship for individuals and families during periods of incapacitation, convalescence or family disruption
- Administer bedside and personal care to clients such as aid in ambulation, bathing, personal hygiene, and dressing and undressing
- Plan and prepare meals and special diets, and feed or assist in feeding clients
- May perform routine health-related duties such as changing non-sterile dressings, assisting in the administration of medications and collecting specimens under the general direction of home care agency supervisor or nurse
- May perform routine housekeeping duties such as laundry, washing dishes and making beds.

Employment requirements

- Some secondary school education is usually required.
- Home management experience may be required.
- College or other courses in home support may be required.

- First aid certification may be required.
- Completion of a training program in care of the elderly, care of persons with disabilities, convalescent care or in a related field may be required.

Additional information

- There is mobility among the occupations in this group.

442 Primary combat members of the Canadian Armed Forces

This sub-major group comprises primary combat members of the Canadian Armed Forces.

4420 Primary combat members of the Canadian Armed Forces

This minor group comprises primary combat members of the Canadian Armed Forces.

44200 Primary combat members of the Canadian Armed Forces

Primary combat members of the Canadian Armed Forces provide collective defence measures to protect Canadian waters, land, air space and other interests. They conduct raids and ambushes in combat missions and conduct patrols and escorts in security and stability missions. They also follow the military and strategic policies established by the leadership of the Canadian Army, the Royal Canadian Airforce and the Royal Canadian Navy.

Illustrative example(s)

- armoured soldier - Canadian Army
- infanteer
- infantry soldier
- soldier - Canadian Army

Exclusion(s)

- Commissioned officers of the Canadian Armed Forces (40042)
- Operations members of the Canadian Armed Forces (43204)
- Specialized members of the Canadian Armed Forces (42102)

Main duties

This group performs some or all of the following duties:

- Provide assistance in emergency situations, such as civil disorder, natural disasters and major accidents
- Operate armoured vehicles, artillery, hand-held weapons and other military combat equipment and defense systems
- Engage in non-combat operations for humanitarian efforts
- Participate in drills and other training in preparation for peacekeeping, combat and natural disaster relief
- Maintain weapon systems, vehicles, survival gear and personal defensive equipment
- Perform underwater search and recovery operations
- Use tactics of camouflage and concealment, patrol, attack, defense, and evasion when engaged in combat missions.

Employment requirements

- Completion of secondary school is usually required.
- Three months of basic military training is required and provided.
- Specialized training in the operation of military equipment and systems is provided.

Additional information

- As they progress in their careers, members of this unit group who demonstrate the required abilities and potential will be offered advanced training.

45 Student monitors, crossing guards and related occupations

This major group comprises student monitors, crossing guards and related occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

451 Student monitors, crossing guards and related occupations

This sub-major group comprises student monitors, crossing guards and related occupations.

4510 Student monitors, crossing guards and related occupations

This minor group comprises student monitors, crossing guards and related occupations. They are employed by municipalities; public and private elementary and secondary schools; and public and private security agencies.

45100 Student monitors, crossing guards and related occupations

Student monitors, crossing guards and workers in related occupations supervise students to ensure their safety and monitor their behaviour during indoor or outdoor breaks and before and after school hours. School monitors are employed by public and private elementary and secondary schools. Crossing guards are employed by municipalities, public and private security agencies and schools.

Illustrative example(s)

- bus monitor
- crossing guard
- lunch monitor
- lunch supervisor
- school lunchroom supervisor

Exclusion(s)

- Elementary and secondary school teacher assistants (43100)
- Security guards and related security service occupations (64410)

Main duties

This group performs some or all of the following duties:

Student monitors

- Monitor school buildings and grounds to help ensure the security of the students and the school
- Monitor student's lockers and lunch areas

- Monitor students during recess, at noon hour or during the day on school grounds
- Record and report students' absences, accidents, behaviours and issues
- May monitor security cameras and report incidents and infractions
- May supervise tests, school detention, and other related activities
- May prepare classroom or equipment such as projectors and other audio-visual or electronic equipment for special activities.

Crossing guards

- Coordinate the flow of pedestrians across selected intersection with the flow of vehicles
- Direct and assist students at school crossing locations.

Employment requirements

- Completion of secondary school may be required.
- First aid certification and cardiopulmonary resuscitation (CPR) training may be required.

Additional information

- There is limited mobility among occupations in this group.

5 Occupations in art, culture, recreation and sport

This broad category comprises specialized middle management occupations in art, culture, recreation and sport, as well as professional, technical, support and other occupations concerned with art and culture (including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums), recreation and sports.

50 Specialized middle management occupations in art, culture, recreation and sport

This major group comprises specialized middle management occupations in art, culture, recreation and sport. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

500 Specialized middle management occupations in art, culture, recreation and sport

This sub-major group comprises specialized middle management occupations in art, culture, recreation and sport, including library, archive, museum and art gallery managers; managers in publishing, motion pictures, broadcasting and performing arts; and recreation, sports and fitness program and service directors.

5001 Managers in art, culture, recreation and sport

This minor group comprises specialized middle management occupations in art, culture, recreation and sport, including library, archive, museum and art gallery managers; managers in publishing, motion pictures, broadcasting and performing arts; and recreation, sports and fitness program and service directors. They are employed by libraries, archives, museums and non-retail art galleries; radio and television stations; newspaper, periodical and book publishing firms; film, theatre, record and video production companies; and municipalities, community and private recreational and fitness organizations, sports governing agencies and professional athletic team organizations.

50010 Library, archive, museum and art gallery managers

Library, archive, museum and art gallery managers plan, organize, direct, control and evaluate the activities of libraries, archives, museums, art galleries or departments within such institutions. They are employed in libraries, archives, museums and non-retail art galleries.

Illustrative example(s)

- archives director
- art gallery manager
- assistant director of archives
- chief librarian
- library director
- museum administrator
- museum executive director

Exclusion(s)

- Archivists (51102)
- Conservators and curators (51101)
- Librarians (51100)
- Records management services manager (See 10019-Other administrative services managers)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a library or library system, archive or archive system, museum or art gallery or a technical department within such an institution
- Develop and administer policies and programs
- Prepare and administer budgets
- Develop, promote and implement public relations and promotional programs
- Prepare funding and grant applications and proposals
- Prepare operational and financial reports, analyses and recommendations
- Recruit and provide training for professional, technical and clerical staff
- May perform the duties of a librarian, archivist or curator in smaller institutions.

Library, archive, museum and art gallery managers may specialize in a specific type of collection.

Employment requirements

Library managers

- A graduate degree in library and information science and
Several years of experience as a librarian, including supervisory experience are required.

Archive managers

- A graduate degree in archival science or history and
Several years of experience as an archivist or in historical research, including supervisory experience are required.

Museum and art gallery managers

- A graduate degree related to a particular collection or a training program in arts administration and
Several years of experience as a curator, conservator or artist or experience in other related museum and art gallery work are usually required.

Additional information

- There is mobility between library and archive managers and between museum and art gallery managers.

50011 Managers - publishing, motion pictures, broadcasting and performing arts

Managers in publishing, motion pictures, broadcasting and performing arts plan, organize, direct, control and evaluate operations within publishing firms, film, theatre and record production companies and broadcasting facilities. They are employed by radio and television stations, by newspaper, periodical and book publishing firms, and by film, theatre, record and video production companies.

Illustrative example(s)

- ballet company director
- book publishing manager
- broadcasting manager
- broadcasting station manager

- copyright manager - publishing
- dance company director
- editor-in-chief
- managing editor
- opera company director
- publishing manager
- radio programming manager
- radio station manager
- television station manager
- theatre company manager
- video production company manager

Exclusion(s)

- Producers, directors, choreographers and related occupations (51120)
- Publisher (See 00015-Senior managers - construction, transportation, production and utilities)
- Senior managers - trade, broadcasting and other services (00014)

Main duties

This group performs some or all of the following duties:

- Establish procedures and implement policies in newspaper and publishing firms, in film, theatre, record and video production companies, and in radio and television stations
- Plan and maintain production schedules for publications, films, broadcasts, and theatre, record and video productions
- Prepare and control budgets
- Hire and supervise staff
- Consult with government regulatory agencies to evaluate and review programs and policies, and to ensure conformance with regulations
- Initiate or approve development of articles, books, films, broadcasts, musical recordings and theatre productions, and liaise with authors, composers, producers and directors.

Employment requirements

- A university degree or college diploma in communications, broadcasting, journalism or other arts discipline is usually required.
- Several years of experience within the publishing, film production, broadcasting or theatre industry are usually required.

50012 Recreation, sports and fitness program and service directors

Recreation, sports and fitness program and service directors plan, organize, direct, control and evaluate the operations of comprehensive recreational, sports and fitness programs and services, national or provincial sports governing agencies and professional athletic teams. They are employed by municipalities, community and private recreational and fitness organizations, sports governing agencies and professional athletic team organizations.

Illustrative example(s)

- director of recreation

- professional football team manager
- professional hockey team manager
- professional track and field team manager
- sports administration director - government
- sports association director
- sports federation director
- sports program director
- YMCA (Young Men's Christian Association) programs director

Exclusion(s)

- Coaches (53201)
- Program leaders and instructors in recreation, sport and fitness (54100)
- Recreation, sports and fitness policy researchers, consultants and program officers (41406)
- Sports officials and referees (53202)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of recreation, sports and fitness programs and services
- Provide technical and professional advice on recreation, sports and fitness matters
- Prepare budget estimates and develop policies and procedures to implement programs
- Manage the operations of a sports governing agency
- Organize and administer national and provincial training, coaching, officiating and other programs associated with a particular sport
- Manage the operations of a professional athletic team
- Recruit professional coaches and athletes
- Direct fundraising drives and arrange for sponsorships from public and private organizations
- Develop long range plans and negotiate business contracts.

Employment requirements

- A university degree in recreology, physical education, sports administration or a related field or
A college diploma in recreation management or sports administration is usually required.
- Several years of experience in an occupation related to recreation and sports administration, consulting or programming are usually required.
- Some directors of recreation may be required to have a Municipal Recreation Director's Certificate.
- Executive directors of sports governing agencies may be required to have coaching certification in a particular sport.

51 Professional occupations in art and culture

This major group comprises professional occupations in art and culture. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 1. Occupations classified in TEER 1, as those in this group with a 1 as the second digit of their code, typically require a university degree (bachelor's, master's

or doctorate) or the accumulation several years of experience and expertise in the subject matter knowledge in a related occupation found in TEER 2, when applicable (which includes occupations with a 2 as a second digit in their code).

511 Professional occupations in art and culture

This sub-major group comprises professional occupations in art and culture, including librarians, archivists, conservators and curators; writing, translating and related communications professionals; and creative and performing artists.

5110 Librarians, archivists, conservators and curators

This minor group comprises librarians, archivists, conservators and curators. They are employed by libraries, museums, art galleries, archives, universities, and private sector organizations; or they may be self-employed.

51100 Librarians

Librarians select, develop, organize and maintain library collections and provide advisory services for users. They are employed in libraries or other establishments with library services throughout the public and private sectors.

Illustrative example(s)

- bibliographer
- cataloguer - library
- cybrarian
- liaison librarian
- librarian
- library consultant
- library supervisor

Exclusion(s)

- Elementary school librarian (See 52100-Library and public archive technicians)
- High school librarian (See 52100-Library and public archive technicians)
- Librarian-teacher - high school (See 41220-Secondary school teachers)
- Library curator (See 51101-Conservators and curators)
- Library director (See 50010-Library, archive, museum and art gallery managers)
- Teacher-librarian - elementary school (See 41221-Elementary school and kindergarten teachers)

Main duties

This group performs some or all of the following duties:

- Recommend acquisition of books, periodicals and audio-visual, interactive media and other materials for inclusion in library collection
- Provide reference services
- Select, classify, catalogue and weed library materials
- Prepare bibliographies, indexes, reading lists, guides and other finding aids
- Develop systems to access library collections
- Perform manual, on-line and interactive media reference searches to assist users in accessing library materials and arrange for interlibrary loans
- Develop taxonomies using various information and data sources

- Provide specialized programs for children, seniors and other groups
- Conduct library information and orientation training programs and tours
- Perform related administrative duties and supervise library technicians, assistants and clerks.

Employment requirements

- A master's degree in library science or a master's degree in library and information studies or
A master's degree from a program accredited by the American Library Association is required.

Additional information

- Progression to library management positions is possible with experience.

51101 Conservators and curators

Conservators restore and conserve artifacts belonging to museums, galleries and owners of cultural property. Curators recommend the acquisition of museum artifacts and gallery works of art and research their artistic history. Conservators and curators are employed in museums, art galleries, archives, libraries, government agencies and universities. Conservators may be self-employed.

Illustrative example(s)

- art gallery conservator
- art objects conservator
- conservator - museum
- curator
- historical artifact conservator
- natural history museum curator

Inclusion(s)

- assistant curator

Exclusion(s)

- Curatorial assistant (See 53100-Registrars, restorers, interpreters and other occupations related to museum and art galleries)
- Museum designer (See 53123-Theatre, fashion, exhibit and other creative designers)
- Museum educator (See 11202-Professional occupations in advertising, marketing and public relations)
- Restaurateur - food services (See 60030-Restaurant and food service managers)

Main duties

This group performs some or all of the following duties:

Conservators

- Examine artifacts, determine their condition, suggest methods for treating them and recommend preventive conservation techniques to their owners
- Restore and conserve paintings, photographs, books, papers, sculptures, furniture, pottery or other museum and art gallery artifacts as per particular field of specialization

- Provide advice on display and storage of museum and gallery artifacts to ensure proper maintenance and preservation
- Explore new conservation and restoration techniques
- Provide consultation to museums, art galleries or private individuals
- Supervise conservation technicians and other museum technicians.

Curators

- Recommend the acquisition of paintings, photographs, sculptures, documents and other museum and art gallery artifacts
- Conduct research into objects' methods of construction techniques, structure and materials to understand its physical and chemical makeup
- Develop storylines and themes and organize displays and exhibitions
- Coordinate the storage of collections and the setting up of displays and exhibitions
- Oversee the conservation, display and circulation of collections
- Supervise curatorial assistants and other museum technicians.

Employment requirements

- Conservators require a master's degree in art conservation or completion of a two-year college program in conservation technology and several years of experience in conservation work.
- Conservators may be accredited by the Canadian Association of Professional Conservators.
- Curators require a master's or bachelor's degree in museology, art history or a field related to their specific area of work.

Additional information

- Progression to museum or art gallery management positions is possible with experience.
- Conservators and curators may specialize in a particular type of collection or material, such as furniture, weapons, books, paintings and musical instruments.

51102 Archivists

Archivists manage, process, store and disseminate information contained in an organization's archives. They acquire, store and research textual material, pictures, maps, architectural documents, electronic materials, films and videos, and sound recordings and multimedia materials. They are employed in archives, in the public and para-public sectors and in private sector organizations.

Illustrative example(s)

- archivist
- historical archivist
- multimedia archivist

Inclusion(s)

- assistant archivist

Exclusion(s)

- Archive assistant (See 52100-Library and public archive technicians)
- Librarians (51100)

- Library, archive, museum and art gallery managers (50010)
- Medical archivist (See 12111-Health information management occupations)

Main duties

This group performs some or all of the following duties:

- Develop policies and procedures for managing current and semicurrent archives, in particular corporate cataloguing systems, records scheduling and disposal, and finding aids
- Design programs for managing, disseminating and storing archives of all types (documents, photographs, maps, audio-visual materials, manuscripts, etc.)
- Plan the computerized management of archives and the management of electronic archives
- Appraise and acquire archival materials to build and develop an archival collection for research purposes
- Authenticate documents and records, and research the origins and significance of archival materials
- Organize noncurrent archives and develop cataloguing and retrieval systems to allow access to archival materials
- Assist people with their searches.

Employment requirements

- A bachelor's degree with a minor in archival studies
or
A university degree with a certificate in archival studies is required.
- A master's degree in archival studies, archival studies and information science, library science or history may be required.

Additional information

- Progression to archive management positions is possible with experience.

5111 Writing, translating and related communications professionals

This minor group comprises writing, translating and related communications professionals, including editors; authors and writers; technical writers; journalists; and translators, terminologists and interpreters. They are employed by advertising, consulting, publishing and multimedia/new-media companies; magazines, journals, newspapers, radio and television networks and stations; sections within companies and government departments that produce publications such as newsletters, handbooks, manuals and Web sites; translation and interpretation agencies; and international organizations, schools, courts, and social service agencies; or they may be self-employed.

51110 Editors

Editors review, evaluate and edit manuscripts, articles, news reports and other material for publication, broadcast or interactive media and coordinate the activities of writers, journalists and other staff. They are employed by publishing firms, magazines, journals, newspapers, radio and television networks and stations, and by companies and government departments that produce publications such as newsletters, handbooks, manuals and Web sites. Editors may also work on a freelance basis.

Illustrative example(s)

- advertising editor
- associate editor
- contributing editor

- copy editor
- editor
- editorial consultant
- literary editor
- manuscript editor
- medical editor
- news editor
- news service editor
- sports editor
- technical editor

Exclusion(s)

- Authors and writers (See 51111-Authors and writers (except technical))
- Editorial assistant (See 14301-Correspondence, publication and regulatory clerks)
- Film editor (See 51120-Producers, directors, choreographers and related occupations)
- Journalists (51113)
- Managing editor (See 50011-Managers - publishing, motion pictures, broadcasting and performing arts)
- Map editor (See 22214-Technical occupations in geomatics and meteorology)
- Sound editor (See 52113-Audio and video recording technicians)
- Translator-reviser (See 51114-Translators, terminologists and interpreters)

Main duties

This group performs some or all of the following duties:

- Evaluate suitability of manuscripts, articles, news copy and wire service dispatches for publication, broadcast or electronic media and recommend or make changes in content, style and organization
- Read and edit copy to be published or broadcast to detect and correct errors in spelling, grammar and syntax, and shorten or lengthen copy as space or time requires
- Confer with authors, staff writers, reporters and others regarding revisions to copy
- Plan and implement layout or format of copy according to space or time allocations and significance of copy
- Plan and coordinate activities of staff and assure production deadlines are met
- Plan coverage of upcoming events and assign work accordingly
- Write or prepare introductions, marketing and promotional materials, bibliographic references, indexes and other text
- May negotiate royalties with authors and arrange for payment of freelance staff.

Editors may specialize in a particular subject area, such as news, sports or features, or in a particular type of publication, such as books, magazines, newspapers or manuals.

Employment requirements

- A bachelor's degree in English, French, journalism or a related discipline is usually required.
- Several years of experience in journalism, writing, publishing or a related field are usually required.
- Membership in the Editors Association of Canada may be required.
- Editors who specialize in a specific subject matter may be required to have training in that subject.

Additional information

- Progression to supervisory and management positions, such as editor-in-chief or managing editor, is possible with experience.

51111 Authors and writers (except technical)

Authors and writers plan, research and write books, scripts, storyboards, plays, essays, speeches and other non-journalistic articles for publication or presentation. They are employed by advertising agencies, governments, large corporations, private consulting firms, publishing firms, multimedia/new-media companies and other establishments, or they may be self-employed.

Illustrative example(s)

- advertising copywriter
- copywriter
- essayist
- interactive media writer
- literary writer
- novelist
- playwright
- poet
- script writer
- speech writer
- writer

Exclusion(s)

- Editors (51110)
- Journalists (51113)
- Professional occupations in advertising, marketing and public relations (11202)
- Songwriter (See 51121-Conductors, composers and arrangers)
- Technical writers (51112)
- Translators, terminologists and interpreters (51114)

Main duties

This group performs some or all of the following duties:

Novelists, playwrights, script writers, poets and other creative writers

- Conceive and write novels, plays, scripts, poetry and other material for publication or presentation
- May conduct research to establish factual content and to obtain other necessary information.

Content writers (non-technical)

- Write e-copy, blog posts, e-books, podcasts and other forms of Web-based content
- Conduct research on a variety of topics to inform writing and may consult with clients to determine the goals of the writing.

Copywriters

- Study and determine selling features of products and services and write text for advertisements and commercials.

Authors and writers may specialize in a particular subject or type of writing.

Employment requirements

- Copywriters usually require a university degree or college diploma in French, English, marketing, advertising or another discipline.
- Creative writing programs are offered by universities and colleges.
- Talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.
- Membership in a guild or union related to the occupation may be required.

51112 Technical writers

Technical writers write manuals and specifications for publication or presentation. They are employed by governments, large corporations, private consulting firms, publishing firms, and other establishments, or they may be self-employed.

Illustrative example(s)

- medical writer
- scientific writer
- technical writer

Exclusion(s)

- Authors and writers (See 51111-Authors and writers (except technical))
- Editors (51110)
- Journalists (51113)
- Songwriter (See 51121-Conductors, composers and arrangers)
- Translators, terminologists and interpreters (51114)

Main duties

This group performs some or all of the following duties:

- Analyze material, such as specifications, notes and drawings
- Conduct interviews and research to gather information on a specific field
- Write, review and update manuals, user guides and other documents to provide instruction and to explain clearly and concisely the installation, operation and maintenance of software and electronic, mechanical and other equipment
- Develop and maintain help documentation
- May design and develop training course material
- May help create content for software products, such as on-screen instructions and error messages.

Employment requirements

- A university degree in the area of specialization, such as computer science or engineering is usually required.

51113 Journalists

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media. They are employed by radio and television networks and stations, newspapers and magazines. Journalists may also work on a freelance basis.

Illustrative example(s)

- book reviewer
- broadcast journalist
- columnist
- correspondent
- cyberjournalist
- investigative reporter
- journalist
- network reporter
- news commentator
- newspaper critic
- reporter

Exclusion(s)

- Announcers and other broadcasters (52114)
- Authors and writers (See 51111-Authors and writers (except technical))
- Editors (51110)
- Photojournalist (See 53110-Photographers)

Main duties

This group performs some or all of the following duties:

- Collect local, national and international news through interviews, investigation and observation
- Write news stories for publication and broadcast
- Receive, analyze and verify news and other copy for accuracy
- Arrange for and conduct interviews as part of research and for radio and television programs
- Research and report on developments in specialized fields such as medicine, science and technology
- Prepare regular feature columns and stories on specialized topics
- Write editorials and commentaries on topics of current interest to stimulate public interest and express the views of a publication or broadcasting station
- Write critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience.

Journalists may specialize in print, broadcast or Webcast media, in particular issues such as political affairs or entertainment news, or in a particular geographic area.

Employment requirements

- A university degree or college diploma in journalism or a related field such as communications is usually required.

Additional information

- Experienced reporters may advance to editorial positions (print media) or become producers (broadcast media).

51114 Translators, terminologists and interpreters

Translators translate written material from one language to another. Interpreters translate oral communication from one language to another during speeches, meetings, conferences, debates and conversation, or in court or before administrative tribunals. Terminologists conduct research to itemize terms connected with a certain field, define them and find equivalents in another language. Sign language interpreters use sign language to translate spoken language and vice versa during meetings, conversations, television programs or in other instances. Translators, terminologists and interpreters are employed by government, private translation and interpretation agencies, in-house translation services, large private corporations, international organizations and the media, or they may be self-employed. Sign language interpreters work in schools and courts, and for social service agencies, interpretation services, government services and television stations, or they may be self-employed.

Illustrative example(s)

- community interpreter
- conference interpreter
- court interpreter
- interpreter
- legal terminologist
- literary translator
- localiser - linguistics
- medical terminologist
- sign language interpreter
- terminologist
- translator
- translator adaptor
- translator-reviser

Inclusion(s)

- cultural interpreter
- transliterator

Exclusion(s)

- Authors and writers (See 51111-Authors and writers (except technical))
- Editors (51110)
- Language school instructor (See 41210-College and other vocational instructors)
- Linguist (See 41409-Other professional occupations in social science)
- Utility locator (See 74204-Utility maintenance workers)

Main duties

This group performs some or all of the following duties:

Translators and translator-revisers

- Translate a variety of written material such as correspondence, reports, legal documents, technical specifications and textbooks from one language to another, maintaining the content, context and style of the original material to the greatest extent possible
- Localize software and accompanying technical documents to adapt them to another language and culture
- Revise and correct translated material
- May train and supervise other translators.

Terminologists

- Identify the terminology used in a field of activity
- Conduct terminological research on a given subject or in response to inquiries for the preparation of glossaries, terminology banks, technological files, dictionaries, lexicons and resource centres, and add to terminological databases
- Manage, update and circulate linguistic information collected from terminological databases
- Provide consultative services to translators, interpreters and technical writers preparing legal, scientific or other documents that require specialized terminologies.

Interpreters

- Interpret oral communication from one language to another aloud or using electronic equipment, either simultaneously (as the speaker speaks), consecutively (after the speaker speaks) or whispered (speaking in a low whisper to one or two persons as the speaker is talking)
- Provide interpretation services in court or before administrative tribunals
- May interpret language for individuals and small groups travelling in Canada and abroad
- May interpret for persons speaking an Aboriginal or foreign language in a variety of circumstances
- May train other interpreters.

Translators, terminologists and interpreters specialize in two languages, such as French and English, the official languages of Canada. They may also specialize in another language and one of the official languages. The main areas of specialization include administrative, literary, scientific and technical translation. Interpreters may specialize in court, parliamentary or conference interpretation.

Sign language interpreters

- Translate sign language to a spoken language and vice versa either simultaneously or consecutively.

Sign language interpreters work in French and Langue des signes québécoise (LSQ) or in English and American Sign Language (ASL).

Employment requirements

- A university degree in translation with a specialization in translation, interpretation or terminology in two languages including at least one of the two official languages
or
A university degree in a related discipline such as languages, linguistics, philology and courses in linguistic transfer and two years' experience as a full-time translator working in two languages, at least one of which is an official language
or
Five years of experience as a full-time translator working in two languages, at least one of which is an official language, are required.

- Sign language interpreters require a college training program or a university certificate in sign language interpretation.
- Certification on dossier or by examination from the Canadian Translators, Terminologists and Interpreters Council (CTTIC) may be required for translators, terminologists and interpreters.
- Sign language interpreters may require a certificate or certification evaluation in LSQ or ASL.
- Fluency in three languages is usually required for translators or interpreters working in an international context.
- Membership in a provincial or territorial association of translators, interpreters and terminologists may be required.
- Membership in a provincial association of sign language interpreters may be required.
- Use of professional titles may be regulated in some provinces.

5112 Creative and performing artists

This minor group comprises creative and performing artists, including producers, directors, choreographers and related occupations; conductors, composers and arrangers; and musicians and singers. They are employed by radio and television stations, broadcast departments, and film, television and recording studios; advertising and record production companies; ballet, dance and opera companies; orchestras, bands, choirs, concert halls, theatres, lounges and night clubs; television, theatre, film and other production companies; and dance, acting and art schools; or they may be self-employed.

51120 Producers, directors, choreographers and related occupations

Producers, directors, choreographers and professionals in related occupations oversee and control the technical and artistic aspects of film, television, video game, radio, dance and theatre productions. They are employed by film production companies, radio and television stations, video game companies, broadcast departments, advertising companies, sound recording studios, record production companies and dance companies. They may also be self-employed.

Illustrative example(s)

- artistic director - motion picture
- choreographer
- cyber-choreographer
- director - motion picture
- director of photography
- filmmaker
- multimedia audio producer
- producer - performing arts
- producer-director
- radio producer
- record producer
- stage director - performing arts
- technical director - broadcasting
- television producer

Inclusion(s)

- film editor
- video illustrator - multimedia work

Exclusion(s)

- Managers - publishing, motion pictures, broadcasting and performing arts (50011)
- Photographers and support occupations in arts and culture (5311)
- Technical occupations in motion pictures, broadcasting and the performing arts (5211)

Main duties

This group performs some or all of the following duties:

Film, radio, television and video game producers

- Plan, organize and control the various stages and scheduling involved in the production of presentations, motion pictures, television shows and radio programs; engage directors and other production personnel and supervise all technical personnel, and determine the treatment, scope and scheduling of production; maintain production archives, negotiate royalties and may plan and control the budget pertaining to a particular production.

Directors

- Interpret scripts and direct the mise-en-scène; select and direct the actors, extras and technical crew; advise the cast and crew on the interpretation and delivery of the performance; direct rehearsals, filmings, broadcasts and performances; and confer with crew and specialists throughout production and post-production to achieve desired presentation.

Choreographers

- Create dances for film, theatre and television performances that convey stories, ideas and moods, and direct rehearsals for dancers to achieve desired interpretation.

Art directors

- Plan, organize and direct the artistic aspects of motion pictures, video games, stage productions and television shows by overseeing the design of sets, costumes, furnishings and props to create portrayals of period and setting.

Film editors

- Edit motion picture film and arrange film segments into sequences to achieve continuity and desired dramatic, comedic and thematic effects.

Record producers

- Plan and coordinate the production of musical recordings, direct musicians and singers during rehearsals and recordings and manage technicians involved in duplicating, dubbing and mastering of recordings.

Directors of photography

- Coordinate and direct the photography of motion pictures, supervise camera operators and other crews and determine lighting, lenses, camera angles, backgrounds and other elements to achieve desired visual effect.

Employment requirements

Producers, directors and film editors

- A university degree or college diploma in the performing arts, broadcasting, journalism, business administration, theatre production or film studies and experience in a technical or production occupation in motion pictures, broadcasting or theatre are usually required.

Choreographers

- A university degree or college diploma in dance, or a period of study at a school of dance and extensive training with a dance company are usually required.

Record producers

- A university degree or college diploma in music or the recording arts and experience in a technical or production occupation in the recording arts are usually required.

Directors of photography

- A university degree or college diploma in film studies or cinematography and experience in camera operation or another technical occupation in video or motion picture production are usually required.

Demonstrated creative ability is required for all occupations in this unit group.

Additional information

- Membership in a related guild or union may be required.

51121 Conductors, composers and arrangers

Conductors, composers and arrangers conduct bands and orchestras, compose musical works and arrange instrumental and vocal compositions. They are employed by symphony and chamber orchestras, bands, choirs, sound recording companies, and orchestras for ballet and opera performances, or they may be self-employed.

Illustrative example(s)

- arranger
- bandmaster
- choir director
- composer
- conductor
- music adapter
- orchestrator
- singer-songwriter-composer
- songwriter

Inclusion(s)

- artistic director - music
- lyricist
- musical director

Exclusion(s)

- Musicians and singers (51122)
- Producers, directors, choreographers and related occupations (51120)

Main duties

This group performs some or all of the following duties:

Conductors

- Select and interpret musical works and lead bands, orchestras and choirs during rehearsals and performances.

Composers

- Create musical compositions such as television and film scores, theme music, songs, symphonies and music for interactive products such as video games.

Arrangers

- Adapt and modify musical compositions to convey desired themes and to suit particular instrumental and vocal performances.

Conductors, composers and arrangers usually specialize in a particular genre of music such as classical, country, jazz or popular music.

Employment requirements

- A university degree in music or completion of a program at a music academy, conservatory or school of music is usually required.
- A period of specialized study related to conducting, composing or arranging is usually required.
- Experience as a musician is required.
- Musical and creative talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.

Additional information

- Composers often work as arrangers.

51122 Musicians and singers

Musicians and singers perform with orchestras, choirs, opera companies and popular bands in establishments such as concert halls, lounges and theatres and in film, television and recording studios. This unit group also includes music teachers who usually teach in conservatories, academies and private homes.

Illustrative example(s)

- accompanist
- church organist
- guitar player
- instrumentalist
- music teacher - musicians
- musician
- opera singer
- percussionist

- recording artist
- rock singer
- singer
- vocalist

Exclusion(s)

- Conductors, composers and arrangers (51121)
- Music professor - university (See 41200-University professors and lecturers)
- Music teacher - elementary school (See 41221-Elementary school and kindergarten teachers)
- Music teacher - secondary school (See 41220-Secondary school teachers)

Main duties

This group performs some or all of the following duties:

Musicians

- Play one or more instruments as soloists or as members of a musical group before audiences or for recording purposes.

Singers

- Sing musical arrangements as soloists or as members of vocal groups before audiences or for recording purposes.

Teachers of music or voice

- Teach technique, interpretation and music theory to students through private or group lessons.

Musicians and singers usually specialize in specific genres of music such as classical, country, ethnic, jazz, opera or popular music.

Employment requirements

- Musical training from a university or college or through private instruction is usually required.
- Members of orchestras and other professional classical musicians and singers usually require a university degree in music.
- Musical talent and ability, as demonstrated during an audition, are important hiring criteria.
- Membership in a guild or union related to the occupation or type of performance may be required.

52 Technical occupations in art, culture and sport

This major group comprises technical occupations in art, culture and sport. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

521 Technical occupations in art and culture

This sub-major group comprises technical occupations in art and culture, including technical occupations in libraries and public archives; technical occupations in motion pictures, broadcasting and the performing arts; and graphic and interior designers.

5210 Technical occupations in libraries and public archives

This minor group comprises library and public archive technicians. They are employed by libraries and public archives and governments.

52100 Library and public archive technicians

Library and public archive technicians assist users in accessing library or archive resources, assist in describing new acquisitions, participate in archive processing and storage, and conduct reference searches. They are employed by libraries and public archives.

Illustrative example(s)

- archive technician
- library technician
- technical indexer - library

Inclusion(s)

- archive assistant
- archive attendant
- elementary school librarian
- secondary school librarian

Exclusion(s)

- Archivists (51102)
- Librarians (51100)
- Library assistants and clerks (14300)
- Records management technicians (12112)

Main duties

This group performs some or all of the following duties:

Library technicians

- Assist library users in accessing books, films, photographs, maps, documents, electronic materials and other library materials
- Catalogue new library acquisitions under the direction of a librarian
- Perform manual and on-line reference searches and make interlibrary loans for users
- Assist librarians in giving tours and providing children's and other specialized library programs.

Public archive technicians

- Assist in developing inventories, forms and finding aids
- Implement and update classification plans and records scheduling and disposal plans
- Apply standards and policies for storage of records and archival materials

- Codify and classify archival materials
- Put archival materials on microfilm or in databases
- Transfer materials from current to semi-current status or put into permanent storage
- Purge, sort, reduce and sample archives
- Research and retrieve archival materials
- Participate in instructing and assisting users
- Ensure that proper procedures are followed in the use of computerized document management systems.

Employment requirements

- Library technicians usually require completion of a two- to three-year college program in library and information technology.
- Public archive technicians require completion of a college diploma or certificate program in archive and document management technology.

5211 Technical occupations in motion pictures, broadcasting and the performing arts

This minor group comprises technical occupations in motion pictures, broadcasting and the performing arts, including film and video camera operators; graphic arts technicians; broadcast technicians; audio and video recording technicians; announcers and other broadcasters; and other technical and coordinating occupations in motion pictures, broadcasting and the performing arts. They are employed by photographic and sound recording studios; television and radio networks and stations; television, motion picture, video and concert production companies; communications providers; marketing, printing and multimedia companies; broadcast equipment companies; theatre, stage and dance companies; clubs, hotels, bands and movie theatres; concert promoters; and educational establishments; or they may be self-employed.

52110 Film and video camera operators

Film and video camera operators operate motion picture and video cameras and related equipment to record news, live events, films, videos and television broadcasts. They are employed by television networks and stations, motion picture and video production companies and in-house communications facilities of large corporations.

Illustrative example(s)

- assistant camera operator
- camera operator
- electronic news gathering (ENG) camera operator
- film camera operator
- motion picture camera operator
- studio camera operator
- television camera operator
- video camera operator

Exclusion(s)

- Audio and video recording technicians (52113)
- Audiovisual (AV) assistant (See 53111-Motion pictures, broadcasting, photography and performing arts assistants and operators)
- Director of photography (See 51120-Producers, directors, choreographers and related occupations)
- Filmmaker (See 51120-Producers, directors, choreographers and related occupations)

- Photographers (53110)
- Video artist (See 53122-Painters, sculptors and other visual artists)
- Video transmission operator (See 52112-Broadcast technicians)

Main duties

This group performs some or all of the following duties:

- Meet with director and senior members of camera crew to discuss assignment and determine filming sequences, camera movements and picture composition
- Select and set up camera equipment to be used and attach lens, filters and film magazine to camera
- Adjust focus, exposure, lighting and other camera settings
- Operate film or video camera to record news, live events, films, videos and television broadcasts
- Label and record contents of exposed film, and complete report sheets
- Test, maintain and store equipment.

Employment requirements

- Completion of a college or technical program in broadcasting, audio-visual technology or a related field and Experience as an assistant camera operator are usually required.
- Creative and technical ability, as demonstrated by a portfolio of work and experience, may be required.

Additional information

- Progression to supervisory or director of photography positions is possible with additional training and experience.

52111 Graphic arts technicians

Graphic arts technicians assist in conceptualizing a project, interpreting design specifications or sketches, preparing the page make-up, lay-out and lettering, and preparing production materials for press, electronic or multimedia publishing. They are employed by publishing, communications, advertising, marketing, printing and multimedia establishments, and by television and film production companies. They may also be self-employed.

Illustrative example(s)

- animated cartoon technician
- animation painter
- computer graphics technician
- graphics technician
- multimedia graphic design technician

Inclusion(s)

- animation camera operator
- poster painter

Exclusion(s)

- Camera, platemaking and other prepress occupations (94151)
- Correspondence, publication and regulatory clerks (14301)

- Desktop publishing (DTP) specialist (See 14112-Desktop publishing operators and related occupations)
- Graphic designers and illustrators (52120)

Main duties

This group performs some or all of the following duties:

- Review the graphic designer's instructions
- Produce or assist in developing and producing design concepts
- Capture elements such as titles, text, drawings, illustrations, graphics, lettering and colour harmonization, using a computer
- Produce computerized images and drawings
- Digitize images using peripherals and transform them using retouching systems, graphic palettes or specialized software
- Perform the layout, page make-up and placement using the conceptual mock-ups provided
- Produce proofs and camera-ready materials and prepare film and any other prepress materials
- Paint or ink individual cells of 2-D or 3-D animated drawings according to animator's specifications using an electronic palette
- Lay out, draw or paint letters, figures, logos and designs for windows, advertisements, billboards, vehicles, books and publications using specialized software or painting equipment
- Work in an interdisciplinary environment.

Employment requirements

- A college diploma in commercial or graphic arts, computer graphics or animated design is required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.
- Creative ability and artistic talent, as demonstrated by a portfolio of work, are required.

Additional information

- Progression to graphic designer positions is possible with experience or supplementary training.

52112 Broadcast technicians

Broadcast technicians install, set up, test, operate and repair electronic equipment used to record and transmit live and taped radio and television programs and to produce audio and video streaming broadcasts for the Internet. They are employed by radio and television broadcasting networks and stations, by broadcast equipment companies and by Internet-based communication providers.

Illustrative example(s)

- broadcast technician
- broadcast transmitter operator
- broadcasting switcher
- master control room (MCR) equipment operator - broadcasting
- master control room (MCR) technician - broadcasting
- mobile broadcasting equipment operator
- regional transmitter technician

- short-wave receiving station technician
- video transmission operator

Inclusion(s)

- broadcast engineer

Exclusion(s)

- Audio and video recording technicians (52113)
- Film and video camera operators (52110)
- Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts (52119)

Main duties

This group performs some or all of the following duties:

- Monitor broadcast quality of live and taped radio and television programs
- Operate and monitor radio and television broadcasting systems to broadcast, receive signals and to regulate clarity and range of sounds and colours of recordings or broadcasts
- Operate broadcast equipment to produce audio and video streaming broadcasts for the Internet
- Make emergency repairs to equipment and substitute programs in case of signal failure
- Maintain, install and troubleshoot a wide variety of broadcast hardware and software
- Set up and operate consoles to pick up and select feed sources from different locations and to air radio or television programs and commercials
- May supervise other broadcast technicians.

Employment requirements

- Completion of a college program in broadcast technology or electronics is usually required.
- Senior and supervisory positions in this unit group require experience.

52113 Audio and video recording technicians

Audio and video recording technicians operate equipment to record, mix and edit sound, music and videotape, for motion pictures, television and radio programs, videos, recordings and live events. They are employed by multimedia companies, film, video and concert production companies, sound recording firms, theatre and dance companies, educational establishments, clubs, hotels, bands, radio stations, television networks and video production and editing companies.

Illustrative example(s)

- audiovisual (AV) technician
- multimedia sound technician
- postproduction technician
- recording engineer
- recording studio technician
- sound effects editor
- sound mixer
- sound technician

- video and sound recorder
- video recording technician

Inclusion(s)

- audio engineer - recording studio
- electronic news gathering (ENG) editor
- public address (P.A.) system operator
- radio technician
- sound engineer

Exclusion(s)

- Broadcast technicians (52112)
- Film and video camera operators (52110)
- Film editor (See 51120-Producers, directors, choreographers and related occupations)
- Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts (52119)
- Recording assistant - recording studio (See 53111-Motion pictures, broadcasting, photography and performing arts assistants and operators)

Main duties

This group performs some or all of the following duties:

- Set up, prepare, operate and adjust audio, recording, editing and reproducing equipment to record, edit and reproduce sound input or feed of pre-recorded material from tapes, records, compact discs, digital audio devices, and input from live microphones, satellites or microwave trucks for films, videos, radio and television programs and recordings
- Prepare and operate videotape recording and playback equipment to record videos, television programs, concerts and live events, and to edit video tape after production
- Operate electronic equipment to generate program titles, credits, sub-titles, graphic backgrounds or animation for television programs
- Operate audio consoles or computers, tape machines, microphones and sound processing equipment to mix, combine and edit music and sound at concerts and live events
- Operate dubbing machines to play back edited dialogue, music and sound effect tracks from different sources, in synchronization with motion picture film
- May supervise and coordinate the work of other audio and video recording technicians.

Employment requirements

- Completion of a college or other program in recording engineering, audiovisual technology or a related field or
Experience as a recording studio assistant is usually required.
- Senior occupations in this unit group, such as recording and sound engineers, require experience.

52114 Announcers and other broadcasters

Announcers and other broadcasters read news, sports, weather, commercial and public service messages and host entertainment and information programs for broadcast on radio or television. They are primarily employed by radio and television stations and networks and by commercial firms that produce advertisements for radio or television.

Illustrative example(s)

- announcer
- broadcaster
- disc jockey (DJ) - broadcast
- news reader
- radio host/hostess
- sports announcer
- talk show host/hostess
- television host/hostess

Inclusion(s)

- master of ceremonies (MC)
- public address (P.A.) system announcer
- traffic reporter
- weather reporter

Exclusion(s)

- Broadcast journalist (See 51113-Journalists)
- Motion pictures, broadcasting, photography and performing arts assistants and operators (53111)

Main duties

This group performs some or all of the following duties:

- Select and introduce music, videos and other entertainment material for broadcast, and make commercial and public service announcements
- Act as host/hostess or master of ceremonies, introduce and interview guests and conduct proceedings of shows or programs
- Read news, sports and weather for radio and television
- Report on weather conditions using information provided by weather forecasting services
- Report on traffic conditions by maintaining contact with external sources of information or by observing traffic from air or land vehicle
- May present own material or material prepared by others.

Employment requirements

- Completion of a college radio or television arts program is usually required.
- Practical training, such as work at a college radio station, may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Membership in a guild or union related to the occupation or type of performance may be required.

Additional information

- Movement to occupations in journalism is possible for those with an educational background in journalism or a related field.

52119 Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts

Workers in other technical and coordinating occupations in motion pictures, broadcasting and the performing arts coordinate and perform specific activities for television, radio and motion picture productions, news broadcasts, theatre and stage productions, and other live or recorded productions. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies, concert promoters and theatre, stage and dance companies.

Illustrative example(s)

- costumier
- gaffer
- key grip
- lighting technician
- make-up artist - motion pictures, broadcasting and performing arts
- program coordinator - broadcasting
- property master - broadcasting
- settings shop foreman/woman
- special effects technician
- stage manager
- stunt coordinator
- theatre technician

Inclusion(s)

- machinist-electrician
- stage electrician

Exclusion(s)

- Audio and video recording technicians (52113)
- Broadcast technicians (52112)
- Film and video camera operators (52110)
- Lighting designer (See 53123-Theatre, fashion, exhibit and other creative designers)
- Motion pictures, broadcasting, photography and performing arts assistants and operators (53111)

Main duties

This group performs some or all of the following duties:

Floor managers

- Coordinate the work of camera operators and other technical staff, and cue announcers, actors and performers during news broadcasts and television program tapings.

Key grips

- Supervise grips, gaffers and stagehands who rig, place, move and dismantle lights, sets, backdrops, scenery and other stage equipment.

Gaffers and lighting technicians

- Set up, operate and make repairs to lights and other electrical equipment in studios and on sets and stages.

Stunt coordinators and special effects technicians

- Design and coordinate special effects such as fires, explosions and crashes.

Make-up artists

- Apply cosmetic and special effects make-up on actors and other performers.

Costumiers

- Study scripts to determine the necessary costumes and oversee the acquisition, fitting and maintenance of costumes.

Settings shop foremen and property masters

- Assist in preparing the construction specifications for sets
- Identify and list the necessary props and place them during rehearsals and performances.

Employment requirements

- For most occupations in this unit group, completion of a college or university program in broadcasting, theatre arts or a related field and several years of experience in a related support or assisting occupation in motion pictures, broadcasting or the performing arts are required.
- Floor managers require a portfolio of work.
- Make-up artists working in motion pictures, broadcasting and the performing arts may require a training program.
- Creative ability, as demonstrated by a portfolio of work, is required for make-up artists.
- For gaffers, lighting technicians, key grips and other stage technicians, completion of a college program or other specialized training program in technical production for theatre is required.
- Membership in a related union may be required.

Additional information

- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.

5212 Graphic and interior designers

This minor group comprises graphic designers, illustrators, and interior designers and interior decorators. They are employed by advertising, graphic design, communications, construction, architectural, interior design and multimedia production companies and other establishments with related departments such as hotel, restaurant and retail establishments; or they may be self-employed.

52120 Graphic designers and illustrators

Graphic designers conceptualize and produce graphic art and visual materials to effectively communicate information for publications, advertising, films, packaging, posters, signs and interactive media such as Web sites and CDs. They are employed by advertising and graphic design firms, by establishments with advertising or communications departments and by multimedia production companies, or they may be self-employed. Graphic designers who are also supervisors, project managers or consultants are included in this unit group. Illustrators conceptualize and create illustrations to represent information through images. They are almost solely self-employed.

Illustrative example(s)

- 3D animation artist
- advertising designer
- animator - animated films
- bank note designer
- cartoonist
- commercial artist
- graphic artist
- graphic designer
- graphic designer - multimedia
- illustrator
- layout designer
- medical illustrator
- multimedia illustrator
- scientific illustrator

Exclusion(s)

- Advertising manager (See 10022-Advertising, marketing and public relations managers)
- Graphic arts technicians (52111)
- Interior designers and interior decorators (52121)
- Painters, sculptors and other visual artists (53122)

Main duties

This group performs some or all of the following duties:

Graphic designers

- Consult with clients to establish the overall look, graphic elements and content of communications materials in order to meet their needs
- Determine the medium best suited to produce the desired visual effect and the most appropriate vehicle for communication
- Develop the graphic elements that meet the clients' objectives
- Prepare sketches, layouts and graphic elements of the subjects to be rendered using traditional tools, multimedia software and image processing, layout and design software
- Estimate cost of materials and time to complete graphic design
- Use existing photo and illustration banks and typography guides or hire an illustrator or photographer to produce images that meet clients' communications needs

- Establish guidelines for illustrators or photographers
- Coordinate all aspects of production for print, audio-visual or electronic materials, such as Web sites, CDs and interactive terminals
- Coordinate sub-contracting
- Work in a multidisciplinary environment
- Supervise other graphic designers or graphic arts technicians.

Illustrators

- Consult with clients to determine the nature and content of illustrations in order to meet their communications needs
- Develop and produce realistic or representational sketches and final illustrations, by hand or using computer-assisted design (CAD) software, for printed materials such as books, magazines, packaging, greeting cards and stationery
- Assist in developing storyboards for electronic productions such as multimedia, interactive and digital products and television advertising and productions
- Produce 2-D and 3-D animated drawings or computer illustrations
- May adapt existing illustrations.

Illustrators may specialize in a particular field such as illustrations for children, advertising, editorials, humour, or medical, scientific or technical illustration, or multimedia design.

Employment requirements

- A university degree in visual arts with specialization in graphic design, commercial art, graphic communications or cartooning
or
Completion of a college diploma program in graphic arts is required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.
- In addition to the arts, training in biology, engineering, architecture or a scientific field is usually required for medical, technical and scientific illustrators.
- Creative ability and artistic talent, as demonstrated by a portfolio of work, are required for graphic designers and illustrators.

Additional information

- Progression to management or senior design positions is possible with experience.
- The title “registered graphic designer” is recognized by law in Ontario.

52121 Interior designers and interior decorators

Interior designers and interior decorators conceptualize and produce aesthetic, functional and safe designs for interior spaces in residential, commercial, cultural, institutional and industrial buildings. They are employed by architectural and interior design firms, retail establishments, construction companies, hospitals, airlines, hotel and restaurant chains, and other establishments, or they may be self-employed.

Illustrative example(s)

- aircraft interior designer
- interior decorator
- interior design technician

- interior designer
- kitchen designer
- office space planner
- retail space planner

Inclusion(s)

- home staging consultant
- space management consultant

Exclusion(s)

- Graphic designers and illustrators (52120)
- Industrial designers (22211)
- Painters and decorators (except interior decorators) (73112)
- Theatre, fashion, exhibit and other creative designers (53123)

Main duties

This group performs some or all of the following duties:

- Consult with clients to determine needs, preferences, safety requirements and purpose of space
- Develop detailed plans and 3-D models showing arrangement of walls, dividers, displays, lighting and other fixtures using computer-assisted design (CAD) software and graphics software
- Develop plans, elevations, cross sections and detailed drawings, and advise on selection of colours, finishes and materials, floor and wall coverings, window treatments, interior and exterior lighting, furniture and other items, taking into account ergonomic and occupational health standards
- Estimate costs and materials required and may advise on leasing, real estate and marketing
- Prepare plans and specifications for the final interior designs in accordance with current practices and codes
- Work in a multidisciplinary environment
- May direct site work crews and subcontractors.

Interior designers are experts in the area of interior architecture, construction materials and building codes. They may specialize in designing interiors for residential, commercial, institutional, cultural and industrial buildings and for aircraft, ships or trains, trade shows and exhibitions. Interior decorators may specialize in decorating residential or commercial interior spaces, home staging, colour consulting and home organizing.

Employment requirements

Interior designers

- A university degree or college diploma in interior design is usually required.
- The National Council for Interior Design Qualification (NCIDQ) examination may be required after six years of combined study and experience.
- Certification by a provincial institute or association is required to use protected titles related to interior designers in all provinces except Prince Edward Island.

Interior decorators

- A college certificate or diploma in interior decoration is usually required.
- Membership in the Canadian Decorators' Association is available to qualified decorators.

53 Occupations in art, culture and sport

This major group comprises occupations in art, culture and sport. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

531 Occupations in art and culture

This sub-major group comprises occupations in art and culture, including occupations related to museums and art galleries; photographers and support occupations in arts and culture; and occupations in creative and performing arts.

5310 Occupations related to museums and art galleries

This minor group comprises occupations related to museums and art galleries, including registrars, restorers, interpreters and other occupations related to museum and art galleries. They are employed by libraries, public archives, museums, and galleries; retail settings; parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic and heritage sites, and other locations.

53100 Registrars, restorers, interpreters and other occupations related to museum and art galleries

Registrars, restorers, interpreters and workers in other occupations related to museums and art galleries classify and catalogue museum artifacts and gallery works of art, construct and install exhibits and displays, restore, maintain and store museum and gallery collections, frame artwork, and perform other functions in support of curatorial and conservation activities. They are employed in museums and galleries. Picture framers and taxidermists may also be employed in retail settings or may be self-employed. This unit group also includes museum and other interpreters who conduct guided tours. They are employed by art galleries, museums, parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic and heritage sites, and other locations.

Illustrative example(s)

- art gallery preparator
- conservation technician - museums and art galleries
- heritage interpreter
- museology technician
- museum extension officer
- museum objects cataloguer
- museum registrar
- museum technician
- paintings restoration technician
- picture framer - museum and art gallery
- restoration technician - museum
- taxidermist

Inclusion(s)

- historical interpreter
- museum interpreter
- nature site interpreter
- zoo interpreter

Exclusion(s)

- Assistant museum curator (See 51101-Conservators and curators)
- Museum exhibit designer (See 53123-Theatre, fashion, exhibit and other creative designers)
- Tour and travel guides (64320)

Main duties

This group performs some or all of the following duties:

Conservation and restoration technicians

- Assist in the restoration and conservation of artifacts under the direction of a conservator.

Preparators and picture framers

- Construct displays and dioramas, build models, install artifacts in displays and prepare artifacts for storage and shipping
- Fabricate custom frames, measure and cut mats, mat enhancements and glass, and mount paintings, photographs and other art work.

Museum interpreters

- Conduct tours of museums, gallery exhibitions and historical, heritage and other sites, answer inquiries and provide information concerning exhibits or sites.

Curatorial assistants, museum extension officers, museology technicians and museum registrars and cataloguers

- Assist in the research, handling and storage of artifacts
- Assist with the planning and development of travelling exhibitions and special events
- Protect and care for cultural artifacts and collections during exhibitions, while in transit and in storage
- Classify and assign registration numbers to artifacts and supervise inventory control.

Taxidermists

- Prepare, stuff and mount skins of animals for preservation, scientific or display purposes.

Employment requirements

- Registrars, cataloguers and interpreters may require a university degree in a field related to museum and gallery work.
- For other occupations in this unit group, completion of a college program in museum technology or conservation technology
or
Completion of other technical or on-the-job training programs related to the work are required.

Additional information

- Museum interpreters may require specific scientific or academic credentials for employment by some museums, nature centres or other sites.
- Technical museum and gallery workers may specialize in a specific type of collection.

5311 Photographers and support occupations in arts and culture

This minor group comprises photographers and support occupations in arts and culture such as photographers and motion pictures, broadcasting, photography and performing arts assistants and operators. They are employed by photographic and sound recording studios; museums; government; television and radio networks and stations; motion picture and video production companies; newspapers and magazines; theatre and stage companies; or they may be self-employed.

53110 Photographers

Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects. They are employed by photographic studios, newspapers, magazines, museums and government, or they may be self-employed.

Illustrative example(s)

- aerial photographer
- commercial photographer
- forensic photographer
- industrial photographer
- photographer
- portrait photographer
- scientific photographer

Inclusion(s)

- multimedia picture illustrator
- photojournalist
- police photographer

Exclusion(s)

- Film and video camera operators (52110)

Main duties

This group performs some or all of the following duties:

- Study requirements of a particular assignment and decide on type of camera, film, lighting and background accessories to be used
- Determine picture composition, make technical adjustments to equipment and photograph subject
- May operate scanners to transfer photographic images to computers
- May operate computers to manipulate photographic images
- May adapt existing photographic images and create new digitized images to be included in multimedia/new media products
- May use delicate instruments, such as optical microscopes attached to cameras

- May process exposed film
- May use airbrush, computer or other techniques to retouch negatives
- Medical photographers may work closely with medical illustrators.

Photographers may specialize in areas such as portrait photography, commercial photography, scientific photography, forensic photography, medical photography, digitized photography, multimedia photography or photojournalism.

Employment requirements

- A bachelor's degree in visual arts with specialization in photography
or
Completion of specialized training in photography in high school, college or specialized training schools
or
Extensive on-the-job training under the supervision of a photographer is required.
- Experience in, or knowledge of computerized photography or digital imaging may be required.
- Creative and technical ability, as demonstrated by a portfolio of work, are required.

53111 Motion pictures, broadcasting, photography and performing arts assistants and operators

Assistants and operators in motion pictures, broadcasting, photography and the performing arts perform duties related to these fields. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies and by theatre and stage companies.

Illustrative example(s)

- boom grip
- camera crane operator
- dresser - motion pictures, broadcasting and performing arts
- lighting assistant
- production assistant
- prompter
- props person
- script assistant
- set builder
- special effects assistant
- spotlight operator
- stagehand
- Inclusion(s)
- motion picture projectionist
- projectionist

Exclusion(s)

- Audio and video recording technicians (52113)
- Broadcast technicians (52112)

- Film and video camera operators (52110)
- Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts (52119)

Main duties

This group performs some or all of the following duties:

Camera crane operators

- Set up, assemble, adjust, maintain and replace reels and projector equipment; detect and repair mechanical and electrical problems; and change and install an electronic control panel using automated equipment.

Motion picture projectionists

- Check the condition of the copy; set up and load film reels on movie theatre projection systems, adjust focus, sound levels and other projector and theatre settings; and maintain projection equipment.

Props persons and set builders

- Assemble, repair, place, build and oversee props.

Script assistants

- Distribute scripts to actors; keep detailed notes of all actions, positions and camera angles; and photograph and date scenes.

Grips and riggers

- Rig, place, move and dismantle sets, backdrops, scenery and other stage equipment.

Dressers

- Clean, maintain, transport and store costumes, and assist performers to dress in costumes.

Production assistants

- Provide support to the director and producer, and are responsible for various aspects of production such as preparing schedules, setting up equipment, and making travel arrangements to various shooting locations.

Employment requirements

- Completion of secondary school is usually required.
- Most occupations in this unit group require completion of college courses in broadcasting, theatre arts or a related field
or
A period of on-the-job training.
- Certification for projectionists is available, but voluntary, in New Brunswick. In Quebec, projectionists are regulated under operators of electrical machines, cinema equipment.
- Projectionists are required to be licensed by their province of employment.

Additional information

- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.
- Progression to related technical occupations in motion pictures, broadcasting or the performing arts is possible with additional training or experience.

5312 Occupations in creative and performing art

This minor group comprises occupations in creative and performing art, including dancers; actors, comedians and circus performers; painters, sculptors and other visual artists; theatre, fashion, exhibit and other creative designers; artisans and craftspersons; patternmakers of textile, leather and fur products. They are employed by radio and television stations, broadcast departments, and film, television and recording studios; advertising and record production companies; ballet, dance and opera companies; orchestras, bands, choirs, concert halls, theatres, lounges and night clubs; television, theatre, film and other production companies; textile, leather and fur products manufacturers; artisan guilds; and dance, acting and art schools; or they may be self-employed.

53120 Dancers

Dancers are employed by ballet and dance companies, television and film productions and nightclubs and similar establishments. This unit group also includes dance teachers who are usually employed by dance academies and dance schools.

Illustrative example(s)

- ballet dancer
- ballet teacher
- ballroom dancing teacher
- dance instructor
- dancer
- folkloric dancer
- interpretative dancer
- tap dancer

Inclusion(s)

- performance movement teacher

Exclusion(s)

- Choreographer (See 51120-Producers, directors, choreographers and related occupations)
- Other performers (55109)

Main duties

This group performs some or all of the following duties:

Dancers

- Practise and rehearse dance routines under direction or instruction to achieve desired interpretation and presentation
- Perform dances as soloists or as members of groups before live audiences or for film or television
- Train and exercise to maintain the required levels of ability and fitness
- May choreograph their own performances.

Dance teachers

- Teach dance technique and artistic interpretation to amateur and professional individuals and groups
- Teach the techniques, cultural origins and symbolic meanings of Aboriginal, ethnic and folkloric dances
- Teach recreational dancing lessons such as ballroom dancing
- Prepare dance students for specific auditions and performances.

Dancers may specialize in specific types of dance such as ballet, ballroom, folk, jazz or modern.

Employment requirements

- A university degree or college diploma in dance or graduation from a private dance school or academy may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Dance teachers usually require experience as dancers.
- Membership in a guild or union related to the occupation or type of performance may be required.

53121 Actors, comedians and circus performers

Actors, comedians and circus performers perform roles and circus skills in circuses, motion picture, television, theatre and radio productions to entertain a variety of audiences. They are employed by motion picture, television, circuses, theatre and other production companies. This unit group includes acting teachers employed by private acting schools.

Illustrative example(s)

- acrobat
- acting teacher - private or studio
- actor/actress
- circus performer
- clown
- comedian
- drama teacher - private or studio
- narrator

Inclusion(s)

- standardized patient

Exclusion(s)

- Announcers and other broadcasters (52114)
- Dancers (53120)
- Drama professor - university (See 41200-University professors and lecturers)
- Musicians and singers (51122)
- Other performers (55109)

Main duties

This group performs some or all of the following duties:

Actors and comedians

- Study and rehearse lines, gestures and expressions to interpret a role
- Portray roles in video or motion picture productions, television shows, theatre productions, radio dramas, commercials and other productions or perform the narration
- Sing or dance as required by specific roles
- Perform comedy acts in nightclubs alone or as members of comedy troupes
- Improvise a role.

Acting teachers

- Train students in interpretation of scripts, speech, movement, and dramatic theory
- Prepare acting students for specific auditions and performances.

Circus performers

- Perform a variety of acts intended to amaze, thrill, and engage audiences
- Conceptualize and choreograph original performances
- Study and perform acrobatic and aerial skills required by specific circus shows
- May participate in the development of a director or ringmaster's vision.

Employment requirements

- Demonstrated ability, based on an audition or previous acting or circus roles, is an important hiring criteria.
- Circus performers and acrobats may require a period of study at a circus school.
- Acting programs are offered at universities, colleges and private acting schools.
- Acting teachers usually require experience as actors.
- Membership in a guild or union may be required.

53122 Painters, sculptors and other visual artists

Painters, sculptors and other visual artists create original paintings, drawings, sculptures, engravings and other artistic works. They are usually self-employed. This unit group also includes art instructors and teachers, who are usually employed by art schools.

Illustrative example(s)

- art teacher (except primary, secondary and post-secondary education)
- artist
- artistic painter
- portrait painter
- sculptor
- silkscreen artist
- watercolourist

Exclusion(s)

- Art teacher - elementary school (See 41221-Elementary school and kindergarten teachers)
- Art teacher - secondary school (See 41220-Secondary school teachers)
- Artisans and craftspersons (53124)
- Fine arts professor - university (See 41200-University professors and lecturers)
- Fine arts teacher - college level (See 41210-College and other vocational instructors)
- Graphic designers and illustrators (52120)

Main duties

This group performs some or all of the following duties:

Painters

- Create drawings, paintings and other artwork using oils, pastels, watercolours, charcoal, ink and other media.

Sculptors

- Create sculptures, statues and other three-dimensional artwork by shaping, carving and working with materials such as clay, ice, paper, stone, wood or metal.

Art instructors and teachers

- Teach students the techniques and methods of drawing, painting, sculpting and other forms of artistic expression.

Employment requirements

- Creative ability and talent, as demonstrated by a portfolio of work, and knowledge of the safe use of materials, tools and equipment are required. Art programs are offered at universities, colleges and private art schools.
- A college diploma in fine arts techniques may be required.
- Art instructors and teachers may be required to have a university degree or college diploma in a field related to art.

53123 Theatre, fashion, exhibit and other creative designers

Theatre, fashion, exhibit and other creative designers conceptualize and produce designs for film, television, theatre and video productions, garments and textiles, displays and exhibits, and for other creative items such as jewellery and trophies. Theatre designers are employed by performing arts and broadcasting companies and by festivals; fashion designers are employed by clothing and textile companies or may be self-employed; and exhibit designers are employed by museums. Other creative designers in this unit group are employed by manufacturing establishments or may be self-employed.

Illustrative example(s)

- clothing designer
- costume designer
- couturier - haute couture
- fabric designer
- fashion designer
- fur designer

- jewellery designer
- lighting designer
- museum exhibit designer
- shoe designer
- trophy designer

Inclusion(s)

- facilities designer
- fashion coordinator
- fashion stylist

Exclusion(s)

- Diorama maker - museums and art galleries (See 53100-Registrars, restorers, interpreters and other occupations related to museum and art galleries)
- Graphic designers and illustrators (52120)
- Industrial designers (22211)
- Interior designers and interior decorators (52121)
- Patternmakers - textile, leather and fur products (53125)
- Tailors, dressmakers, furriers and milliners (64200)

Main duties

This group performs some or all of the following duties:

Theatre designers

- Design and create settings, scenic environments, properties, costumes and lighting for theatre, film and video productions, operas and ballets.

Fashion designers

- Design and create clothing and accessories for men, women and children.

Exhibit designers

- Plan and develop permanent and temporary or moveable exhibits and displays for museum exhibitions, trade shows, conventions and other exhibitions.

Theatre designers may specialize in costume, lighting or set design; fashion designers may specialize in men's, women's or children's apparel or in different lines such as sportswear, footwear or formal wear.

Employment requirements

- A university degree in fine arts or visual arts with specialization in theatre design, clothing design or exhibit design
or
Completion of a college or art school program in theatre design, clothing design or exhibit design is required.
- Creative ability, as demonstrated by a portfolio of work, is required.
- Use of computer-aided design (CAD) software may be required.

Additional information

- Designers may advance to supervisory and management positions.

53124 Artisans and craftspersons

Artisans and craftspersons use manual and artistic skills to design and make ornamental objects, pottery, stained glass, jewellery, rugs, blankets, other handicrafts and artistic floral arrangements. Makers of musical instruments are also included in this unit group. Most craftspersons are self-employed. Artistic floral arrangers are usually employed in florist shops and floral departments of retail establishments, or may be self-employed. Craft instructors are also included in this unit group and are employed by artisan guilds, colleges, private studios and recreational organizations.

Illustrative example(s)

- artistic floral arranger
- carver
- craft instructor (except education)
- craftsperson
- glass blower
- lace weaver - arts and crafts
- leather worker
- metal arts worker
- potter
- screen printing artisan
- silversmith
- stained glass artist
- stringed instrument maker
- totem pole carver
- weaver - arts and crafts

Exclusion(s)

- Cabinetmakers (72311)
- Jewellers, jewellery and watch repairers and related occupations (62202)
- Painters, sculptors and other visual artists (53122)
- Weavers, knitters and other fabric making occupations (94131)

Main duties

This group performs some or all of the following duties:

Carvers

- Use hand tools and woodworking machines to produce carvings from wood, stone and other materials and to carve ornamental designs into wooden furniture and other objects.

Glass blowers

- Design and create glass objects using blowpipes and artisan's hand tools and equipment.

Metal arts workers

- Design metal jewellery, utensils, implements, wall hangings and other objects and create them from gold, silver, copper, pewter and other metals.

Potters

- Design ornamental and ceramic functional earthenware pieces and create them using clay, moulds, potter's wheels and other equipment, glazing materials and kilns.

Stained glass artists

- Design stained glass windows, lampshades and other objects and cut, paint, fire and assemble pieces of stained glass to create such products.

Instrument makers

- Construct instruments by applying their knowledge of wood, ebonite, metal properties and other materials and instrument design using hand and power tools.

Weavers

- Use hands or loom to interlace strips of flexible material such as wool, cotton, silk, grasses, bark and rawhide to make baskets, wreaths, wall hangings, clothing, rugs, blankets and other objects.

Craft instructors

- Prepare craftmaking lessons, gather the required working materials and demonstrate and teach craftmaking techniques.

Artistic floral arrangers

- Design bouquets, corsages, sprays, wreaths and other floral arrangements and select natural and artificial flowers, foliage and decorative accessories to create arrangements or other floral items to suit customers' requirements.

Employment requirements

- Skills are often learned through apprenticeship with a master craftsman.
- Training programs are offered by artisan guilds, colleges and private studios.
- Creative ability and talent, as demonstrated by a portfolio of work, and knowledge of safe handling of material, tools and equipment are required.
- A college diploma in fine craft techniques may be required.

53125 Patternmakers - textile, leather and fur products

Patternmakers in textile, leather and fur products create master patterns for the production of garments, footwear and other textile, leather or fur products. They are employed by pattern manufacturers, textile, leather or fur products manufacturers, or they may be self-employed.

Illustrative example(s)

- dress patternmaker
- embroidery patternmaker
- fur garment patternmaker
- garment patternmaker
- leather products patternmaker

- shoe patternmaker
- textile products patternmaker

Exclusion(s)

- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)

Main duties

This group performs some or all of the following duties:

- Examine sketches, samples of articles and specifications of designs to determine number, size and shape of pattern parts and assess the amount of cloth required to make a product
- Draw, lay out and cut master patterns of products
- Outline parts of patterns on paper and mark patterns to indicate details such as the placement of pockets and pleats on garments, decorative stitching on shoe parts or eyelets on canvas products
- Create pattern size variations from master patterns using computer or drafting instruments, or forward patterns to computer operator to create pattern size variations
- Lay out master patterns on fabric and cut sample patterns
- Mark size, identification, style and sewing instructions on sample patterns.

Employment requirements

- Completion of secondary school is required.
- College courses in design and patternmaking or one to two years of on-the-job training are required.
- Courses in computer-assisted patternmaking may be required.

Additional information

- Progression to supervisory positions is possible with experience.

532 Occupations in sports

This sub-major group comprises occupations in sports, including athletes, coaches, sports officials and referees, and related occupations.

5320 Athletes, coaches, referees and related occupations

This minor group comprises occupations in sports, including athletes, coaches, sports officials and referees, and related occupations. They are employed by national, provincial and local sports organizations, leagues and sporting commissions; professional and amateur sports teams; universities; community centres, sports and fitness clubs, outdoor centres, resorts, recreational facilities, health care facilities, retirement homes and correctional institutions; and government departments, private businesses and tourism associations; or they may be self-employed.

53200 Athletes

Athletes participate in competitive sports events on an amateur or professional basis. They play team sports such as hockey, baseball, football and lacrosse; or compete in individual sports such as skiing, figure skating, boxing or track and field; or in games such as poker or chess. They are employed by professional team organizations or they may be self-employed.

Illustrative example(s)

- athlete
- baseball player
- boxer
- figure skater
- football player
- golfer
- harness race driver
- hockey player
- jockey
- professional athlete
- skier
- sprinter
- track athlete

Inclusion(s)

- competitor - gambling
- gamer - video games

Exclusion(s)

- Coaches (53201)
- Sports instructor (See 54100-Program leaders and instructors in recreation, sport and fitness)
- Sports officials and referees (53202)

Main duties

This group performs some or all of the following duties:

- Train under the direction of a coach or trainer to qualify for competition
- Attend scheduled practice and training sessions
- Participate in local, regional, provincial, national or international competitions and sporting events
- Assess performance after an event to identify strengths and weaknesses.

Employment requirements

- Demonstrated ability in a particular sport, or type of game, is required.
- Extensive training under the supervision of a coach is required.
- Certification with a particular sports federation may be required.
- A background combining athletic training and college or university studies is strongly recommended.

53201 Coaches

Coaches prepare and train individual athletes or teams for competitive events. They are employed by national and provincial sports organizations, professional and amateur sports teams, sports clubs and universities or they may be self-employed. This unit group also includes sports scouts who identify and recruit athletes for professional sports teams. They are employed by professional sports organizations.

Illustrative example(s)

- coach
- figure skating coach
- football scout
- gymnastics coach
- head coach
- hockey coach
- hockey scout
- national team coach
- soccer coach
- sports scout
- swimming coach
- volleyball coach

Exclusion(s)

- Athletes (53200)
- Athletic therapist (See 31204-Kinesiologists and other professional occupations in therapy and assessment)
- Program leaders and instructors in recreation, sport and fitness (54100)
- Sports officials and referees (53202)

Main duties

This group performs some or all of the following duties:

Coaches

- Identify strengths and weaknesses of athletes or teams
- Plan, develop and implement training and practice sessions
- Nurture and develop athletes' potential skills and abilities
- Develop, plan and coordinate competitive schedules and programs
- Motivate and prepare athletes or teams for competitive events or games
- Formulate competitive strategies, develop game plans and direct athletes and players during games or athletic events
- Analyse and evaluate athletes' or teams' performances and modify training programs.

Sports scouts

- Identify and recruit developing athletes for professional sports teams
- Observe and evaluate prospective athletes' skills and performance, and review their past records
- File reports on scouting assessments and recommendations with professional team employers.

Employment requirements

Coaches

- Completion of the National Coaching Certificate program is usually required for individual and team sports coaches in all sports.
- National Coaching Certificate Level 3 is usually required for provincial coaches.

- National Coaching Certificate Level 4 is usually required for coaches of national team athletes.
- A degree in physical education may be required.
- Experience in, and technical knowledge of, the sport is required.

Sports scouts

- Experience in, and technical knowledge of, the sport is required.

53202 Sports officials and referees

Sports officials and referees observe and enforce rules and regulations governing sporting events, athletic games and sports competitions. They are employed by national, provincial and local sporting commissions, organizations and leagues.

Illustrative example(s)

- athletics judge
- clerk of the course - racetrack
- figure skating judge
- goal judge
- harness racing starter
- racetrack timer
- referee
- sports linesman/woman
- sports official
- umpire

Exclusion(s)

- Coaches (53201)
- Program leaders and instructors in recreation, sport and fitness (54100)

Main duties

This group performs some or all of the following duties:

- Officiate at sporting events or athletic competitions to maintain standards of play and to ensure that game rules and safety regulations are observed
- Record lapsed time and keep scores during events or competitions
- Judge the performance of competitors, award points, impose penalties for infractions and determine results
- Compile scores and other athletic records
- Establish and maintain rapport with coaches, players and organizing committees
- Verify credentials of athletes or animals engaged in sports or related special events, and respond to written protests.

Employment requirements

- Sports officials require certification by and registration with a sport governing body or commission.
- Sports referees require completion of an officiating program offered by a sport governing body.

54 Support occupations in sport

This major group comprises support occupations in sport. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

541 Support occupations in sport

This sub-major group comprises support occupations in sport, including program leaders and instructors in recreation, sport and fitness.

5410 Program leaders and instructors in recreation, sport and fitness

This minor group comprises program leaders and instructors in recreation, sport and fitness. They are employed by community centres, sports and fitness clubs, outdoor centres, resorts, recreational facilities, health care facilities, retirement homes; correctional institutions; government departments, private businesses and tourism associations and similar establishments.

54100 Program leaders and instructors in recreation, sport and fitness

Program leaders and instructors in recreation, sport and fitness lead and instruct groups and individuals in recreational, sports, fitness or athletic programs. Fitness appraisers conduct fitness tests and assessments and design, develop and deliver fitness programs. They are employed by community centres, sports and fitness clubs, outdoor centres, resorts, recreational facilities, health care facilities, retirement homes, correctional institutions, government departments, private businesses, tourism associations and similar establishments.

Illustrative example(s)

- aerobics instructor
- camp counsellor
- certified personal trainer
- day camp leader
- fitness appraiser
- fitness instructor
- gymnastics teacher
- personal trainer
- playground worker
- recreation program leader
- recreation technician
- riding instructor
- ski instructor
- ski patrol
- swimming instructor - sports

Inclusion(s)

- lifeguard
- search and rescue crew member - sports and recreation
- ski patroller

Exclusion(s)

- Other instructors (43109)
- Recreation supervisor (See 41406-Recreation, sports and fitness policy researchers, consultants and program officers)
- Recreation, sports and fitness program and service directors (50012)
- Sports supervisor (See 41406-Recreation, sports and fitness policy researchers, consultants and program officers)

Main duties

This group performs some or all of the following duties:

Program leaders and instructors in recreation and sport

- Plan and carry out recreational, athletic, fitness and sports activities
- Assemble supplies and sports and game equipment
- Demonstrate and instruct athletic, fitness or sports activities and techniques
- Instruct groups and individuals in arts, crafts and similar activities and lead groups and individuals in recreational or leisure programs
- Attend to clients with special needs
- Provide lifestyle awareness information
- Conduct therapeutic recreational or athletic activities
- Monitor recreational, sports or fitness activities to ensure safety and provide emergency or first aid assistance when required
- Enforce safety rules and regulations
- Assist with coordination of special events
- Schedule activities, keep logs, maintain records and prepare reports
- May train and supervise staff
- May maintain and repair sports equipment.

Fitness appraisers

- Assess individual's physical fitness through fitness tests and assessments and design fitness programs based on results
- Provide information to the public and individuals on lifestyle and methods to improve and maintain physical fitness and weight
- Measure and record individuals' bodily proportions, weight and body mass index
- Handle equipment to conduct fitness tests and assessments and deliver exercise programs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in recreation or physical education or extensive experience in a specific recreational or sports program activity is usually required.
- Certification is usually required in a specific area of recreational, sports or fitness activity, such as ski instructor or personal trainer, or in first aid or emergency care.
- Demonstrated ability in a particular recreational, sports or fitness discipline is required.
- Fitness appraiser certification may be required for fitness appraisers.

55 Support occupations in art and culture

This major group comprises support occupations in art and culture. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

551 Support occupations in art and culture

This sub-major group comprises support occupations in art and culture and other performers not elsewhere classified.

5510 Support occupations in art and culture

This minor group comprises support occupations in art and culture and other performers not elsewhere classified. They are employed by art and cultural establishments; advertising, communication and production companies; or they may be self-employed.

55109 Other performers

Other performers include influencers, magicians, models, puppeteers and other performers. They are employed by nightclubs and theatre, advertising and other production companies, or they may be self-employed.

Illustrative example(s)

- busker
- fashion model
- influencer
- magician
- puppeteer

Inclusion(s)

- deejay (DJ) - turntablist

Exclusion(s)

- Actors, comedians and circus performers (53121)
- Dancers (53120)
- Musicians and singers (51122)

Main duties

This group performs some or all of the following duties:

Buskers

- Entertain passers-by on sidewalks and in parks with magic tricks, juggling acts, short dramatic works, music and other entertaining displays.

Magicians and illusionists

- Perform sleight-of-hand tricks, disappearing acts and other illusions.

Fashion models

- Display clothing and merchandise in commercials, advertisements and fashion shows
- Pose for artists, photographers and videographers.

Influencers

- Share ideas and advice on a broad range of topics
- Create personal and branded content for social media or other digital platforms.

Employment requirements

- Completion of modelling courses is usually required for models.
- Training for other occupations in this unit group is often obtained under the guidance of a practitioner.
- Membership in a guild or union related to the occupation or type or performance may be required.

Additional information

- There is little mobility between the different occupations in this unit group.

6 Sales and service occupations

This broad category comprises middle management occupations in wholesale and retail trade, and customer services, as well as occupations concerned with wholesale and retail sales, and customer, personal and support service occupations related to a wide range of industries, such as accommodation and food services, travel, tourism and cleaning services.

60 Middle management occupations in retail and wholesale trade and customer services

This major group comprises middle management occupations in retail and wholesale trade and customer services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

600 Middle management occupations in retail and wholesale trade and customer services

This sub-major group comprises middle management occupations in retail and wholesale trade and customer services, including corporate sales managers; retail and wholesale trade managers; managers in food service and accommodation; and managers in customer and personal services.

6001 Corporate sales managers

This minor group comprises corporate sales managers. They are employed by commercial, industrial and wholesale and retail trade establishments.

60010 Corporate sales managers

Corporate sales managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial, institutional, e-business and wholesale and retail sales. They are employed by commercial, industrial and wholesale and retail trade establishments.

Illustrative example(s)

- corporate sales manager
- national accounts manager - sales
- regional sales manager
- trade expansion manager

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Retail and wholesale trade managers (60020)
- Senior managers - trade, broadcasting and other services (00014)
- Technical sales supervisor (See 62100-Technical sales specialists - wholesale trade)

Main duties

This group performs some or all of the following duties:

- Plan direct and evaluate the activities of sales departments in commercial, industrial, wholesale and retail and other establishments
- Organize regional and divisional sales operations
- Establish organizational policies and procedures in relation to sales
- Determine strategic planning related to new product lines

- Lead sales team in building relationships with business clients and manage negotiations of sales contracts
- Recruit, organize, train and manage staff
- May work with the marketing department to understand and communicate marketing messages to the field.

Employment requirements

- A university degree or college diploma in business or in a related field with a specialization in sales and
Several years of experience as a sales representative or in a related occupation are usually required.

Additional information

- Progression to senior management positions is possible with experience.

6002 Retail and wholesale trade managers

This minor group comprises retail and wholesale trade managers. They are employed by retail and wholesale sales establishments; or they may own and operate their own stores (self-employed).

60020 Retail and wholesale trade managers

Retail and wholesale trade managers plan, organize, direct, control and evaluate the operations of establishments that sell merchandise or services on a retail or wholesale basis. They are employed by retail and wholesale sales establishments or they may own and operate their own store.

Illustrative example(s)

- antique dealer
- assistant manager - retail
- automobile repair shop manager
- bookstore manager
- car dealership manager
- cattle dealer
- clothing store manager
- department store manager
- pleasure boat dealer
- sporting goods store manager
- store manager - retail
- supermarket manager
- variety store manager

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Insurance, real estate and financial brokerage managers (10020)
- Restaurant and food service managers (60030)
- Retail sales supervisors (62010)

Main duties

This group performs some or all of the following duties:

- Plan, direct and evaluate the operations of establishments engaged in wholesale and retail sales or of departments in such establishments
- Manage staff and assign duties
- Study market research and trends to determine consumer demand, potential sales volumes and effect of competitors' operations on sales
- Determine merchandise and services to be sold, and implement price and credit policies
- Source and negotiate with vendors when necessary to procure merchandise for resale
- Develop and implement marketing strategies
- Plan budgets, authorize expenditures, and monitor revenues
- Evaluate and improve customer service and respond to customer requests and issues
- Address staffing requirements, including the hiring, development and retention of staff.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business administration or other field related to the product or service being sold may be required.
- Several years of related retail or wholesale sales experience at increasing levels of responsibility are usually required.

Additional information

- There is some mobility between managers in this unit group, depending on the product or service.

6003 Managers in food service and accommodation

This minor group comprises managers in restaurants and other food service and accommodation service. They are employed by food and beverage service establishments; and hotels, motels, resorts, student residences and other accommodation establishments; or they may be self-employed.

60030 Restaurant and food service managers

Restaurant and food service managers plan, organize, direct, control and evaluate the operations of restaurants, bars, cafeterias and other food and beverage services. They are employed in food and beverage service establishments, or they may be self-employed.

Illustrative example(s)

- banquet manager
- bar manager
- cafeteria manager
- catering service manager
- dining room manager
- food services manager
- hotel food and beverage service manager
- restaurant assistant manager

- restaurant manager
- restaurateur - food services

Exclusion(s)

- Dietitians and nutritionists (31121)
- Executive chef (See 62200-Chefs)
- Food service supervisors (62020)
- Senior managers - trade, broadcasting and other services (00014)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a restaurant, bar, cafeteria or other food or beverage service
- Determine type of services to be offered and implement operational procedures
- Recruit staff and oversee staff training
- Set staff work schedules and monitor staff performance
- Control inventory, monitor revenues and modify procedures and prices
- Resolve customer complaints and ensure health and safety regulations are followed
- Negotiate arrangements with suppliers for food and other supplies
- Negotiate arrangements with clients for catering or use of facilities for banquets or receptions.

Employment requirements

- Completion of a college or other program related to hospitality or food and beverage service management is usually required.
- Several years of experience in the food service sector, including supervisory experience, are required.
- Responsible beverage service certification is usually required for managers of establishments serving alcoholic beverages.

Additional information

- Progression to senior management in food service is possible with experience.

60031 Accommodation service managers

Accommodation service managers plan, organize, direct, control and evaluate the operations of an accommodation establishment or of a department within such an establishment. They are employed by hotels, motels, resorts, student residences and other accommodation establishments, or they may be self-employed.

Illustrative example(s)

- bed and breakfast operator
- front desk manager - accommodation services
- guest-house operator
- hotel assistant manager
- hotel director
- hotel manager
- motel manager

- reservations manager
- seasonal resort manager
- ski resort manager
- tourist home operator

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Executive housekeepers (62021)
- Facility operation and maintenance managers (70012)
- Restaurant and food service managers (60030)
- Retail and wholesale trade managers (60020)

Main duties

This group performs some or all of the following duties:

- Develop, implement and evaluate policies and procedures for the operation of the department or establishment
- Prepare budgets and monitor revenues and expenses
- Participate in the development of pricing and promotional strategies
- Negotiate with suppliers for the provision of materials and supplies
- Negotiate with clients for the use of facilities for conventions, banquets, receptions and other functions
- Recruit and supervise staff, oversee training and set work schedules
- Resolve customer complaints.

Employment requirements

- A university degree or college diploma in hotel management or other related discipline is usually required for managers employed by hotel chains or large accommodation establishments.
- Several years of experience within the accommodation industry are usually required and may substitute for formal educational requirements.

6004 Managers in customer and personal services

This minor group comprises managers in customer and personal services, not elsewhere classified. They are employed by hairdressing salons, dry cleaners, residential cleaning services and other establishments that provide customer and personal services not elsewhere classified; and by schools that provide non-vocational instruction in driving, languages, music, dance, art, cooking and fashion.

60040 Managers in customer and personal services

Managers in customer and personal services provide services such as dry cleaning, hairdressing or residential cleaning. This group also includes managers of schools that provide non-vocational instruction in driving, languages, music, dance, art, cooking or fashion.

Illustrative example(s)

- barber shop manager
- car wash manager
- cooking school manager

- driving school manager
- dry cleaning service manager
- hairdressing salon manager
- pest control service manager
- residential cleaning service manager
- septic tank service manager
- spa manager
- window washing service manager

Exclusion(s)

- Accommodation service managers (60031)
- Cleaning supervisors (62024)
- Executive housekeepers (62021)
- Other business services managers (10029)
- Retail and wholesale trade managers (60020)
- Retail sales supervisors (62010)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of an establishment providing services such as dry cleaning, hairdressing or residential cleaning, or a school providing non-vocational instruction in driving, languages, music, dance, art, cooking or fashion
- Establish or implement policies and procedures for staff
- Plan and control budget and inventory
- Respond to inquiries or complaints and resolve problems
- Manage contracts for advertising or marketing strategies
- Hire, train and supervise staff.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma or vocational certificate in the subject of instruction may be required.
- One to three years of experience in the service being offered are usually required.

62 Retail sales and service supervisors and specialized occupations in sales and services

This major group comprises retail sales and service supervisors and specialized occupations in sales and services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

620 Retail sales and service supervisors

This sub-major group comprises retail sales and service supervisors.

6201 Retail sales supervisors

This minor group comprises retail sales supervisors. They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing.

62010 Retail sales supervisors

Retail sales supervisors supervise and coordinate the activities of workers in the following unit groups: Retail salespersons and visual merchandisers (64100), Cashiers (65100), Store shelf stockers, clerks and order fillers (65102) and Other sales related occupations (65109). They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing.

Illustrative example(s)

- department store supervisor
- head cashier
- liquor store supervisor
- produce department supervisor
- rental service supervisor
- retail sales route supervisor
- telemarketing supervisor

Exclusion(s)

- Retail and wholesale trade managers (60020)
- Service supervisors (6202)
- Technical sales supervisor (See 62100-Technical sales specialists - wholesale trade)

Main duties

This group performs some or all of the following duties:

- Supervise and coordinate sales staff and cashiers
- Assign sales workers to duties and prepare work schedules
- Authorize payments and the return of merchandise
- Resolve issues that may arise, including customer requests, complaints and supply shortages
- Maintain specified inventory and order merchandise
- Prepare reports regarding sales volumes, merchandising and personnel matters
- Hire and train or arrange for the training of new sales staff and monitor and report on performance
- Ensure the visual standards and image of the store are maintained, such as store displays, signage and cleanliness
- May perform the same duties as workers supervised
- May perform key holding and managerial duties if required, such as opening and closing the store, managing escalated complaints, developing and implementing marketing strategies, and signing for deliveries.

Employment requirements

- Completion of secondary school is usually required.
- Previous retail sales experience as a retail salesperson or sales clerk, cashier, telemarketer, door-to-door salesperson or rental agent is usually required.

Additional information

- Progression to management positions in retail trade is possible with additional training or experience.

6202 Service supervisors

This minor group comprises service supervisors, including food service supervisors; executive housekeepers; accommodation, travel, tourism and related services supervisors; customer and information services supervisors; cleaning supervisors; and other services supervisors. They are employed by hospitals and other health care establishments; cafeterias, catering companies and other food service establishments; banks, trust companies, credit unions and similar financial institutions; retail establishments, contact centres and insurance, telephone and utility companies; schools and other educational institutions; hotels, motels, commercial and industrial establishments and home, office and specialized cleaning companies; and other service establishments throughout the public and private sectors.

62020 Food service supervisors

Food service supervisors supervise, direct and coordinate the activities of workers who prepare, portion and serve food. They are employed by hospitals and other health care establishments and by cafeterias, catering companies and other food service establishments.

Illustrative example(s)

- cafeteria supervisor
- canteen supervisor
- catering supervisor
- food service supervisor

Exclusion(s)

- Banquet captain (See 65200-Food and beverage servers)
- Maîtres d'hôtel and hosts/hostesses (64300)
- Mobile canteen service supervisor (See 72024-Supervisors, motor transport and other ground transit operators)
- Restaurant and food service managers (60030)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of staff who prepare, portion and serve food
- Estimate and order ingredients and supplies required for meal preparation
- Prepare food order summaries for chef according to requests from dieticians, patients in hospitals or other customers
- Establish work schedules and procedures
- Maintain records of stock, repairs, sales and wastage
- Train staff in job duties, and sanitation and safety procedures

- Supervise and check assembly of regular and special diet trays and delivery of food trolleys to hospital patients
- Ensure that food and service meet quality control standards
- May participate in the selection of food service staff and assist in the development of policies, procedures and budgets
- May plan cafeteria menus and determine related food and labour costs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a community college program in food service administration, hotel and restaurant management or related discipline
or
Several years of experience in food preparation or service are required.

62021 Executive housekeepers

Executive housekeepers direct and control the operations of housekeeping departments within hotels, hospitals and other establishments.

Illustrative example(s)

- assistant executive housekeeper
- executive housekeeper
- hospital executive housekeeper
- hotel executive housekeeper
- housekeeping director
- housekeeping manager

Exclusion(s)

- Accommodation service managers (60031)
- Facility operation and maintenance managers (70012)
- Housekeeping room attendant supervisor (See 62024-Cleaning supervisors)
- Housekeeping supervisor (See 62024-Cleaning supervisors)

Main duties

This group performs some or all of the following duties:

- Manage the operations of the housekeeping department
- Plan and coordinate the activities of housekeeping supervisors and their crews
- Conduct inspections to ensure that departmental standards and health and safety regulations are being met
- Select and purchase equipment and supplies, and maintain inventory
- Arrange for maintenance and repair of equipment and machinery
- Hire, train and supervise housekeeping staff
- Maintain financial records and prepare budgets, payroll and employee schedules.

Employment requirements

- Completion of secondary school is usually required.
- A university degree or college diploma in hospital management, hotel management or business administration is usually required.
- Extensive experience as a cleaning supervisor may substitute for formal education requirements.

62022 Accommodation, travel, tourism and related services supervisors

Accommodation, travel, tourism and related services supervisors supervise and coordinate the activities of hotel accommodation service clerks, casino workers, reservation clerks and other travel and accommodations workers not elsewhere classified. They are employed by service establishments throughout the public and private sectors.

Illustrative example(s)

- casino dealer supervisor
- hotel clerk supervisor
- reservations supervisor
- tour guide supervisor
- travel clerk supervisor

Exclusion(s)

- Accommodation service managers (60031)
- Food service supervisors (62020)

Main duties

This group performs some or all of the following duties:

- Coordinate, assign and review the work of hotel, motel and other accommodation services clerks, casino workers, reservation clerks and other travel and accommodations workers not elsewhere classified
- Establish work schedules and procedures and coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Hire and train staff in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college courses related to the area supervised may be required.
- Experience in the occupation supervised is usually required.
- Casino gaming licences are usually required for all casino employees.

Additional information

- Progression to managerial positions is possible with additional training or experience.

62023 Customer and information services supervisors

Customer and information services supervisors supervise and coordinate the activities of workers in the following unit groups: Customer service representatives - financial institutions (64400) and Other customer and information services representatives (64409). They are employed by banks, trust companies, credit unions and similar financial institutions, retail establishments, contact centres, insurance, telephone and utility companies and other establishments throughout the public and private sectors.

Illustrative example(s)

- call centre agent supervisor
- contact centre supervisor
- current accounts supervisor
- customer service representatives supervisor - financial services
- information clerks supervisor

Exclusion(s)

- Airline sales and service agents supervisor (See 62022-Accommodation, travel, tourism and related services supervisors)
- Banking, credit and other investment managers (10021)
- Other business services managers (10029)
- Retail and wholesale trade managers (60020)
- Retail sales supervisors (62010)
- Supervisors, finance and insurance office workers (12011)

Main duties

This group performs some or all of the following duties:

Customer service representatives supervisors - financial services

- Supervise, coordinate, assign and review the work of clerks engaged in the following duties: providing information and customer service; and serving customers in banks, trust companies and other financial institutions
- Examine and verify accuracy of work and authorize routine deposits and withdrawals
- Establish work schedules and procedures
- Coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Identify training needs and train workers in job duties and company policies
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Customer service representatives supervisors (except financial services)

- Supervise, coordinate, assign, and review the work of clerks and agents engaged in conducting surveys and interviews, collecting and compiling statistics, providing information and customer service, and writing correspondence including emails and preparing materials
- Establish work schedules and procedures

- Coordinate activities with other units and departments
- Prepare and submit progress reports and other documentation
- Identify training needs and train workers in job duties and company policies
- Ensure the smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Experience in the occupation supervised is required.
- Completion of college or industry courses related to financial or customer services may be required.

62024 Cleaning supervisors

Cleaning supervisors supervise and coordinate the activities of workers in the following unit groups: Light duty cleaners (65310), Specialized cleaners (65311), and Janitors, caretakers and building superintendents (73201). They are employed by hospitals and other health care institutions, hotels, motels, schools and other educational institutions, commercial and industrial establishments, home and office cleaning establishments and by various specialized cleaning companies.

Illustrative example(s)

- building cleaning supervisor
- carpet cleaning supervisor
- cleaning supervisor
- head custodian
- housekeeping supervisor
- window washing supervisor

Exclusion(s)

- Building maintenance supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Executive housekeepers (62021)
- Specialized cleaners (65311)

Main duties

This group performs some or all of the following duties:

- Supervise and coordinate the work of light duty, industrial or specialized cleaners and janitors
- Inspect sites or facilities to ensure established safety and cleanliness standards are met
- Recommend or arrange for additional services required such as painting, repair work, renovations or replacement of furnishings and equipment
- Hire and train cleaning staff
- Prepare work schedule and coordinate activities with those of other departments
- Prepare budget, estimate costs and keep financial records
- Receive payment for specialized cleaning jobs
- May perform certain cleaning duties.

Employment requirements

- Completion of secondary school is usually required.
- Previous experience in a particular area of cleaning is usually required.
- Previous supervisory experience may be required.

62029 Other services supervisors

Other services supervisors supervise and coordinate the activities of dry cleaning, laundry, ironing, pressing and finishing workers, theatre ushers and attendants, spa, sports and recreation club workers, commissionaires, security guards and other service workers. They are employed by service establishments throughout the public and private sectors.

Illustrative example(s)

- clubhouse attendants supervisor
- commissionaire supervisor
- dry cleaning production supervisor
- dry cleaning supervisor
- laundry and dry cleaning forewoman
- laundry supervisor
- parking lot supervisor
- security guard supervisor
- ski lift attendants supervisor
- spa supervisor
- theatre attendants supervisor
- ticket taker supervisor

Exclusion(s)

- Cleaning supervisors (62024)
- Executive housekeepers (62021)
- Managers in customer and personal services (60040)
- Retail sales supervisors (62010)

Main duties

This group performs some or all of the following duties:

- Coordinate, assign and review the work of dry cleaning, laundry, ironing, pressing and finishing workers, theatre ushers and attendants, spa, sports and recreation club workers, commissionaires, security guards and other service workers not elsewhere classified
- Establish work schedules and procedures and coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Hire and train staff in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery, and arrange for maintenance and repair work
- Monitor quality and production levels
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college courses related to the area supervised may be required.
- Experience in the occupation supervised is usually required.
- Certification or licensing may be required for some occupations in this group (i.e., supervisors of commissionaires or security guards).

Additional information

- Progression to managerial positions is possible with additional training or experience.

621 Specialized sales occupations

This sub-major group comprises specialized sales occupations, including technical sales specialists in wholesale trade and retail and wholesale buyers.

6210 Technical sales specialists in wholesale trade and retail and wholesale buyers

This minor group comprises specialized sales occupations, including technical sales specialists in wholesale trade and retail and wholesale buyers. They are employed by establishments that produce and provide technical goods and services and retail and wholesale establishments; or they may be self-employed.

62100 Technical sales specialists - wholesale trade

Technical sales specialists in wholesale trade, sell a range of technical goods and services, such as scientific, agricultural and industrial products, electricity, telecommunications services and computer services, to governments and to commercial and industrial establishments in domestic and international localities. They are employed by establishments that produce or provide technical goods and services, such as pharmaceutical companies, industrial equipment manufacturing companies, grain elevators, computer services firms, engineering firms and hydroelectric companies, or they may be self-employed technical sales specialists/agents who contract their services to other companies. Technical sales specialists in wholesale trade who are supervisors are included in this unit group.

Illustrative example(s)

- aircraft sales representative
- communication equipment sales representative
- construction equipment sales representative
- electricity sales representative
- heavy equipment sales representative
- industrial supplies sales representative
- medical instruments sales agent
- software sales representative
- technical sales representative
- technical sales supervisor
- technical support specialist - wholesale trade

Inclusion(s)

- sales engineer

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Retail salespersons and visual merchandisers (64100)
- Sales and account representatives - wholesale trade (non-technical) (64101)

Main duties

This group performs some or all of the following duties:

- Maintain and grow sales relationships with existing clients
- Identify and solicit potential clients
- Assess clients' needs, recommend or assist in the selection of appropriate goods or services, and negotiate prices or other sales terms
- Provide input into product design where goods or services must be tailored to suit clients' needs
- Develop sales presentations, proposals, or other materials to illustrate benefits from use of good or service
- Estimate costs of installing and maintaining equipment or service
- Prepare and administer sales contracts and maintain customer records
- Consult with clients after sale to resolve problems and to provide ongoing support
- Troubleshoot technical problems related to equipment
- Develop and maintain technical product or service knowledge to explain features to clients and answer questions about goods or services
- May offer training in the operation and maintenance of equipment
- Develop, implement and report on sales strategies to achieve business goals
- Assess market conditions and competitors' activities and develop an awareness of emerging markets and trends
- May supervise the activities of other technical staff and sales specialists.

Technical sales specialists usually specialize in a particular line of goods or services.

Employment requirements

- A university degree or college diploma in a program related to the product or service is usually required.
- Experience in sales or in a technical occupation related to the product or service may be required.
- Fluency in a specific foreign language, and/or foreign work or travel experience may be required for technical sales specialists seeking employment with companies that import or export technical goods or services.
- Technical sales supervisors require experience as a technical sales specialist.
- A driver's licence and a good driving record may be required.

Additional information

- Extensive company training programs for technical sales specialists may be provided by employers.
- Progression to sales management positions is possible with additional training or experience.

62101 Retail and wholesale buyers

Retail and wholesale buyers buy merchandise for resale by retail or wholesale establishments and are usually responsible for the merchandising operations of retail or wholesale establishments. Retail and wholesale buyers who are supervisors and those who are assistants are included in this unit group.

Illustrative example(s)

- appliance buyer
- assistant buyer
- beverage taster and buyer
- buyer - retail
- buyer - wholesale
- chief buyer
- clothing buyer
- food buyer
- produce buyer

Inclusion(s)

- merchandiser

Exclusion(s)

- Procurement and purchasing agents and officers (12102)

Main duties

This group performs some or all of the following duties:

- Purchase merchandise for resale by retail or wholesale establishments
- Review requirements of establishment and determine quantity and type of merchandise to purchase
- Study market reports, trade periodicals and sales promotion materials and visit trade shows, showrooms, factories and product design events
- Select the merchandise which best fits the establishment's requirements
- Interview suppliers and negotiate prices, discounts, credit terms and transportation arrangements
- Oversee distribution of merchandise to outlets and maintain adequate stock levels
- Establish and maintain contact with suppliers
- May supervise the work of other retail buyers.

Retail and wholesale buyers may specialize in a particular merchandise line.

Employment requirements

- Completion of secondary school is required.
- A university degree or college diploma in business, marketing or a related program is usually required.
- Previous work experience in retail or wholesale establishments is usually required.
- Supervisors and senior buyers require experience in the occupation supervised or in a particular merchandise line.

Additional information

- Retail and wholesale buyers may specialize through experience or product-related training courses.
- Progression to management positions in retail trade, sales, marketing or advertising is possible with additional training or experience.

622 Specialized services occupations

This sub-major group comprises specialized services occupations, including chefs; funeral directors and embalmers; jewellers, jewellery and watch repairers and related occupations.

6220 Specialized occupations in services

This minor group comprises specialized services occupations, including chefs; funeral directors and embalmers; jewellers, jewellery and watch repairers and related occupations. They are employed by restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs, and other similar establishments; on ships; at funeral homes; and at jewellery stores or repair shops; or they may be self-employed.

62200 Chefs

Chefs plan and direct food preparation and cooking activities and who prepare and cook meals and specialty foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs and similar establishments, and on ships.

Illustrative example(s)

- chef
- corporate chef
- executive chef
- executive sous-chef
- head chef
- master chef
- pastry chef
- saucier
- sous-chef
- specialist chef

Exclusion(s)

- Cooks (63200)
- Food counter attendants, kitchen helpers and related support occupations (65201)
- Restaurant and food service managers (60030)

Main duties

This group performs some or all of the following duties:

Chefs

- Plan and direct food preparation and cooking activities of several restaurants in an establishment, restaurant chains, hospitals or other establishments with food services
- Consult with clients regarding weddings, banquets and specialty functions
- Plan menus and ensure food meets quality standards
- Estimate food requirements and may estimate food and labour costs
- Supervise activities of sous-chefs, specialist chefs, chefs and cooks
- Arrange for equipment purchases and repairs
- Recruit and hire staff
- May prepare and cook food on a regular basis, or for special guests or functions.

Sous-chefs

- Supervise activities of specialist chefs, chefs, cooks and other kitchen workers
- Demonstrate new cooking techniques and new equipment to cooking staff
- May plan menus and requisition food and kitchen supplies
- May prepare and cook meals or specialty foods.

Chefs and specialist chefs

- Prepare and cook complete meals or specialty foods, such as pastries, sauces, soups, salads, vegetables and meat, poultry and fish dishes, and create decorative food displays for special events such as banquets
- Instruct cooks in preparation, cooking, garnishing and presentation of food
- Create new recipes
- Supervise cooks and other kitchen staff
- May plan menus
- May requisition food and kitchen supplies.

Employment requirements

- Completion of secondary school is usually required.
- Cook's trade certification or equivalent credentials, training and experience are required.
- Executive chefs usually require management training and several years of experience in commercial food preparation, including two years in a supervisory capacity and
Experience as a sous-chef, specialist chef or chef.
- Sous-chefs, specialist chefs and chefs usually require several years of experience in commercial food preparation.
- Red Seal endorsement for cooks is also available to qualified chefs upon successful completion of the interprovincial Red Seal examination.
- The certifications of Certified Working Chef (CWC) and Certified Chef de Cuisine (CCC), administered by the Canadian Culinary Institute (CCI) of the Canadian Culinary Federation (CCF) are available to qualified chefs.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- There is some mobility among the various types of chefs in this unit group.
- Executive chefs may progress to managerial positions in food preparation establishments.

62201 Funeral directors and embalmers

Funeral directors coordinate and arrange all aspects of funeral services. Embalmers prepare the remains of deceased persons for public visitation and burial. Funeral directors and embalmers are employed by funeral homes.

Illustrative example(s)

- apprentice embalmer
- embalmer
- funeral director
- mortician

Exclusion(s)

- Bereavement counsellor (See 41301-Therapists in counselling and related specialized therapies)
- Funeral home attendant (See 65329-Other service support occupations)
- Funeral services general manager (See 00014-Senior managers - trade, broadcasting and other services)

Main duties

This group performs some or all of the following duties:

Funeral directors

- Consult with the family of the deceased regarding the nature of the funeral service, the disposition of the remains and funeral costs
- Transfer, or arrange for the transfer of, the remains from the place of death to the funeral home
- Inform survivors of benefits for which they may be eligible
- Issue death notices to newspapers
- Oversee the preparation of the remains, plan and schedule funeral services, coordinate burials and cremations and complete legal documents
- Discuss and negotiate prearranged funerals with clients
- Manage funeral home operations including hiring and directing staff, maintaining financial records, preparing accounts and ordering merchandise
- Supervise embalmers, funeral home attendants and other funeral home staff
- May perform same duties as embalmers.

Embalmers

- Preserve, sanitize and prepare human remains for funeral services
- Perform cosmetic and restorative work on human remains
- Supervise funeral home attendants and other funeral home staff.

Employment requirements

- Completion of a one- to two-year college program and a twelve- to twenty-month practical apprenticeship program during or following the educational program is usually required for funeral directors.
- Completion of a two- to three-year college program and a twelve- to twenty-month practical apprenticeship program during or following the educational program
or
Completion of a three-year college program is required for embalmers.
- Funeral directors require licensure in most provinces and territories.
- Funeral directors may be required to be licensed embalmers depending on provincial requirements.
- Embalmers require licensure in all provinces.

62202 Jewellers, jewellery and watch repairers and related occupations

Jewellers and workers in related occupations fabricate, assemble, repair and appraise fine jewellery. Watch repairers and related workers repair, clean, adjust and fabricate parts for clocks and watches. They are employed by jewellery, clock and watch manufacturers and retail stores, by jewellery and watch repair shops or they may be self-employed.

Illustrative example(s)

- clock repairer
- diamond cutter
- gem cutter
- pearl cutter
- precious stone setter
- watch repairer

Inclusion(s)

- clockmaker
- gemologist

Exclusion(s)

- Clock and watch assembler (See 94219-Other products assemblers, finishers and inspectors)
- Goldsmith AND silversmith (See 53124-Artisans and craftspersons)
- Jewellery assembler (See 94219-Other products assemblers, finishers and inspectors)

Main duties

This group performs some or all of the following duties:

Jewellers and related workers

- Fabricate and repair precious and semi-precious metal jewellery, such as rings, brooches, pendants, bracelets and lockets
- Examine, cut, shape and polish diamonds using optical instruments, lathes and laps
- Examine, cut, shape and polish precious and synthetic gems using optical instruments, cutting disks and laps
- Appraise gemstones and diamonds to differentiate between stones, identify rare specimens and to detect peculiarity affecting stone values
- Set precious and semi-precious stones in jewellery mountings, according to specifications
- May supervise other jewellers.

Jewellers may specialize in certain kinds of jewellery, such as gold or silver, or in particular operations, such as fabrication or repair.

Watch repairers

- Fabricate or fit parts to make watches and clocks
- Examine clocks and watches, disassemble and check for defective and misaligned parts or rust
- Replace or repair worn or broken parts
- Test, adjust and regulate timepiece movements
- Clean all parts using special cleaning and rinsing solutions and ultrasonic or mechanical cleaning machines to remove dirt and dried lubricants
- May supervise other watch repairers.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college or other program, or apprenticeship training in watch or jewellery repair or gemology is usually required.
- Experience as a jewellery, clock or watch assembler may be required.

Additional information

- Mobility is possible among the various jewellery occupations in this unit group.
- There is little mobility between the jewellery occupations and the watch repairers in this unit group.

63 Occupations in sales and services

This major group comprises occupations in sales and services. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

631 Occupations in sales

This sub-major group comprises occupations in sales, including insurance agents and brokers; real estate agents and salespersons; and financial sales representatives.

6310 Insurance, real estate and financial sales occupations

This minor group comprises occupations in sales, including insurance agents and brokers; real estate agents and salespersons; and financial sales representatives. They are employed by insurance companies, brokerages, banks, credit unions, trust companies and similar financial institutions; in the real estate industry; or they may be self-employed.

63100 Insurance agents and brokers

Insurance agents and brokers sell life, automobile, property, health and other types of insurance to individuals, businesses and public institutions. Insurance agents are employed by individual insurance companies or are independent representatives of specific insurance companies. Insurance brokers are employed by brokerage firms, or may work in partnerships or hold sole proprietorship. Supervisors of insurance agents are included in this unit group.

Illustrative example(s)

- insurance agent
- insurance broker
- insurance sales representative
- insurance sales supervisor

Exclusion(s)

- Insurance manager (See 10020-Insurance, real estate and financial brokerage managers)
- Insurance underwriters (12202)
- Supervisors, finance and insurance office workers (12011)

Main duties

This group performs some or all of the following duties:

- Sell automobile, fire, health, life, property, marine, aircraft and other types of insurance to clients
- Establish client insurance coverage, calculate premiums and establish method of payment
- Provide information concerning group and individual insurance packages, the range of risk coverage, benefits paid and other policy features
- Ensure appropriate forms, medical examinations and other policy requirements are completed
- Monitor insurance claims and respond to clients' enquiries
- Identify and solicit potential clientele.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training and insurance industry courses and training programs are provided and are required for employment.
- Licensure by the insurance governing body in the province or territory of employment is required.

Additional information

- Progression to insurance management positions is possible through experience.
- Completion of educational programs through the Insurance Institute of Canada entitles agents to professional recognition as a Chartered Insurance Professional (CIP) or a Fellow Chartered Insurance Professional (FCIP).
- Completion of educational courses through the Financial Advisors Association of Canada (Advocis) allows for various levels of professional designations for insurance and financial advisors.

63101 Real estate agents and salespersons

Real estate agents and salespersons act as agents for the sale or purchase of houses, apartments, commercial buildings, land and other real estate. They are employed in the real estate industry.

Illustrative example(s)

- commercial real estate agent
- real estate agent
- real estate agent supervisor
- real estate sales representative
- residential real estate agent

Exclusion(s)

- Assessors, business valuers and appraisers (12203)
- Insurance, real estate and financial brokerage managers (10020)
- Mortgage broker (See 11109-Other financial officers)
- Rentals agent (See 13101-Property administrators)
- Right-of-way agent (See 12102-Procurement and purchasing agents and officers)

Main duties

This group performs some or all of the following duties:

- Solicit property sales listings from prospective vendors
- Assist vendors in selling property by establishing asking price, advertising the property, listing the property with listing services and conducting open houses for prospective buyers
- Assist prospective buyers in selecting, visiting, inspecting and making offers of purchase on real estate properties
- Advise clients on market conditions, prices, mortgages, legal requirements and related matters
- Draw up sales agreements for approval of purchaser and seller
- May rent or lease properties on behalf of clients.

Real estate agents and salespersons may specialize in residential, commercial, industrial/institutional or rural real estate sales.

Employment requirements

- Completion of secondary school is required.
- Completion of a real estate training course is required.
- Provincial or territorial licensure in the province or territory of employment is required.

Additional information

- Real estate agents and salespersons normally work on a commission basis.
- Real estate agents may operate independently by obtaining a broker's licence in accordance with the regulations of the province of employment. A broker's licence is required to become a manager in real estate.

63102 Financial sales representatives

Financial sales representatives sell basic deposit, investment and loan products and services to individuals and businesses. They work in banks, credit unions, trust companies and similar financial institutions.

Illustrative example(s)

- credit officer
- financial services officer
- financial services representative
- loan officer
- mortgage officer
- sales associate - personal banking

Inclusion(s)

- debt counsellor

Exclusion(s)

- Banking, insurance and other financial clerks (14201)
- Customer services representatives - financial institutions (64400)

- Loan and credit manager - banking or trust company (See 10021-Banking, credit and other investment managers)
- Other financial officers (11109)

Main duties

This group performs some or all of the following duties:

- Open new personal and non-personal accounts, and provide access to automated banking machine, telephone banking and online banking services
- Interview applicants for personal, mortgage, student and business loans
- Promote the sale of deposit, investment, credit and loan products and services
- Assist clients by proposing solutions to address financial objectives such as business expansion, debt management, investment and other financial goals
- Research and evaluate loan applicant's financial status, references, credit and ability to repay the loan
- Complete credit and loan documentation
- Submit credit and loan applications to branch or credit manager with recommendations for approval or rejection; or approve or reject applications within authorized limits ensuring that credit standards of the institution are respected
- Prepare statements on delinquent accounts and forward irreconcilable accounts for collector action
- Review and update credit and loan files
- Act as joint custodian for cash and securities.

Employment requirements

- Completion of secondary school and extensive general banking experience is usually required.
- A bachelor's degree or college diploma related to commerce or economics may be required.
- A mutual funds licence is usually required.
- Registration with the securities regulatory authority in the province or territory of employment is usually required.
- Completion of a loan or credit training program, ranging from six to twelve months, is usually required.
- Various training programs and courses are offered by the Canadian Securities Institute and may be required by employers.
- Financial services officers who sell regulated financial products and investments are required to be licensed by the appropriate governing body.

Additional information

- Progression to higher levels of financial planning and wealth management is possible with experience.
- Progression to credit and loan management positions is possible with experience.

632 Occupations in services

This sub-major group comprises occupations in services, including cooks, butchers and bakers; hairstylists and estheticians; and shoe repairers, shoemakers and upholsterers.

6320 Cooks, butchers and bakers

This minor group comprises cooks, butchers and bakers. They are employed by restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs, educational institutions and other establishments;

on ships; at construction and logging campsites; and by supermarkets, grocery stores, butcher shops, fish stores, bakeries, catering companies; or they may be self-employed.

63200 Cooks

Cooks prepare and cook a wide variety of foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, educational institutions and other establishments. Cooks are also employed aboard ships and at construction and logging campsites. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice cook
- cook
- dietary cook
- first cook
- grill cook
- hospital cook
- institutional cook
- journeyman/woman cook
- licensed cook
- line cook
- second cook
- short order cook

Exclusion(s)

- Chefs (62200)
- Food counter attendants, kitchen helpers and related support occupations (65201)

Main duties

This group performs some or all of the following duties:

- Prepare and cook complete meals or individual dishes and foods
- Prepare and cook special meals for patients as instructed by dietitian or chef
- Schedule and supervise kitchen helpers
- Oversee kitchen operations
- Maintain inventory and records of food, supplies and equipment
- May set up and oversee buffets
- May clean kitchen and work area
- May plan menus, determine size of food portions, estimate food requirements and costs, and monitor and order supplies
- May hire and train kitchen staff.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program for cooks or Completion of college or other program in cooking or food safety or Several years of commercial cooking experience may be required.
- Trade certification is available, but voluntary, in all provinces and territories.
- Red Seal endorsement is also available to qualified cooks upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- There is mobility among the various types of cooks in this group.
- Progression to supervisory or more senior positions, such as chef, is possible with experience and training.

63201 Butchers - retail and wholesale

Butchers prepare standard and specialty cuts of meat, poultry, fish and shellfish for sale in retail or wholesale food establishments. They are employed in supermarkets, grocery stores, butcher shops and fish stores or may be self-employed. Butchers who are supervisors or heads of departments are included in this unit group. Apprentices are also included in this unit group.

Illustrative example(s)

- butcher - butcher shop
- butcher apprentice
- head butcher - wholesale
- retail butcher

Exclusion(s)

- Fish cutter - fish processing (See 94142-Fish and seafood plant workers)
- Industrial butchers and meat cutters, poultry preparers and related workers (94141)
- Meat cutter - retail or wholesale (See 65202-Meat cutters and fishmongers - retail and wholesale)
- Meat department manager - retail (See 60020-Retail and wholesale trade managers)
- Seafood sales clerk (See 64100-Retail salespersons and visual merchandisers)

Main duties

This group performs some or all of the following duties:

- Cut, trim, bone and otherwise prepare custom and/or standard cuts of meat, poultry, fish and shellfish for sale at self-serve counters or according to customers' orders
- Prepare meat for special displays and/or delivery
- Shape, lace and tie roasts and other meats, poultry or fish and may wrap or package fresh or frozen or prepared meats
- Manage inventory, keep records of sales and determine amount, product line and freshness of products according to company and customer requirements

- Adhere to Hazard Analysis and Critical Control Points (HACCP), Canadian Food Inspection Agency (CFIA) and food safety standards
- Ensure food storage conditions are adequate
- May supervise, direct work or train other butchers, meat cutters or fishmongers.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college or other butchery training program may be required.
- Several years of on-the-job training in food stores is usually required for retail butchers.

Additional information

- Progression from industrial butcher and industrial meat cutter positions to these higher skilled jobs is possible with experience and specialized on the job training in supermarkets, grocery stores, fish stores, butcher shops.

63202 Bakers

Bakers prepare bread, rolls, muffins, pies, pastries, cakes and cookies in retail and wholesale bakeries and dining establishments. They are employed in bakeries, supermarkets, catering companies, hotels, restaurants, hospitals, and other institutions, or they may be self-employed. Bakers who are supervisors are included in this unit group. Apprentices are also included in this unit group.

Illustrative example(s)

- baker
- baker apprentice
- bakery supervisor
- bread baker
- head baker

Inclusion(s)

- chocolate maker

Exclusion(s)

- Bakery machine operator - food and beverage processing (See 94140-Process control and machine operators, food and beverage processing)
- Pastry chef (See 62200-Chefs)

Main duties

This group performs some or all of the following duties:

- Prepare dough for pies, bread, rolls and sweet goods, batters for muffins, cookies and cakes and icings and frostings according to recipes or special customer orders
- Bake mixed doughs and batters
- Frost and decorate cakes or other baked goods
- Ensure quality of products meets established standards
- Draw up production schedule to determine type and quantity of goods to produce

- Purchase baking supplies
- May oversee sales and merchandising of baked goods
- May hire, train and supervise baking personnel and kitchen staff.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program for bakers
or
Completion of a college or other program for bakers
or
Several years of commercial baking experience is usually required.
- On-the-job training may be provided.
- Trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified bakers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.

6321 Hairstylists and estheticians

This minor group comprises hairstylists, barbers, estheticians, electrologists and related occupations. They are employed by hair salons, barber shops, vocational schools and health care establishments; theatre, film and television establishments; or they may be self-employed.

63210 Hairstylists and barbers

Hairstylists and barbers cut and style hair and perform related services. They are employed in hairstyling or hairdressing salons, barber shops, vocational schools, health care establishments and theatre, film and television establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- barber
- barber apprentice
- hair colour technician
- hairdresser
- hairdresser apprentice
- hairstylist
- hairstylist apprentice
- wig stylist

Exclusion(s)

- Estheticians, electrologists and related occupations (63211)
- Hairdressing teacher - community college (See 41210-College and other vocational instructors)

Main duties

This group performs some or all of the following duties:

Hairstylists

- Suggest hairstyle compatible with client's physical features or determine style from client's instructions and preferences
- Cut, trim, taper, curl, wave, perm and style hair
- Apply bleach, tints, dyes or rinses to colour, frost or streak hair
- Analyze hair and scalp condition and provide basic treatment or advice on beauty care treatments for scalp and hair
- Clean and style wigs and hair pieces
- Apply hair extensions
- May shampoo and rinse hair
- May perform receptionist duties and order supplies
- May train or supervise other hairstylists, hairstylist apprentices and helpers.

Barbers

- Cut and trim hair according to client's instructions or preferences
- Shave and trim beards and moustaches
- May shampoo hair and provide other hair treatment, such as waving, straightening and tinting and may also provide scalp conditioning massages
- May book appointments and order supplies
- May train and supervise other barbers and barber apprentices.

Employment requirements

Hairstylists

- Completion of secondary school education is required.
- Completion of a one- or two-year hairstyling apprenticeship program or completion of a college or other program in hairstyling combined with on-the-job training is usually required.
- Several years of experience may replace formal education and training.
- Employers may require applicants to provide a hairstyling demonstration before being hired.
- Trade certification for hairstylists is compulsory in Nova Scotia, Ontario, Manitoba, Saskatchewan, and Alberta, and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Quebec, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- In New Brunswick, licensing by the Cosmetology Association of New Brunswick is mandatory to use the titles "hairstylist" or "hairstylist".
- Red Seal endorsement is also available to qualified hairstylists upon successful completion of the interprovincial Red Seal examination.

Barbers

- Completion of secondary school education is required.
- Completion of a seven-month to one-year apprenticeship or other barber program is usually required.
- On-the-job training may be substituted for formal education.

- Trade certification for barbers is compulsory in Ontario and available, but voluntary, in the Yukon.
- Red Seal endorsement is also available to barbers, as qualified hairstylists, upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.

63211 Estheticians, electrologists and related occupations

Estheticians, electrologists and workers in related occupations provide facial and body treatments designed to enhance an individual's physical appearance. They are employed in beauty salons, electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and in cosmetic departments of retail establishments such as pharmacies and department stores, or they may be self-employed.

Illustrative example(s)

- beauty treatment operator
- cosmetician
- electrologist
- electrolysis technician
- esthetician
- hair replacement technician
- manicurist
- pedicurist
- scalp treatment specialist
- tattoo artist

Exclusion(s)

- Hairstylists and barbers (63210)
- Image, social and other personal consultants (64201)
- Make-up artist - motion pictures, broadcasting and performing arts (See 52119-Other technical and coordinating occupations in motion pictures, broadcasting and the performing arts)

Main duties

This group performs some or all of the following duties:

Estheticians

- Give facial and other body treatments using specialized products and techniques.

Cosmeticians

- Advise customers on the use of make-up and other beauty products and apply make-up to customers; may specialize in applying make-up to models or other individuals for special occasions.

Electrologists

- Remove unwanted hair permanently from client's face or body using needle only specialized electrical hair removal equipment, laser and other equipment.

Manicurists and pedicurists

- Clean, shape and polish fingernails and toenails and provide related treatments.

Scalp treatment specialists

- Apply medicated lotions to treat scalp conditions and hair loss.

Tattoo artists

- Clean and sterilise tattoo equipment and work areas; consult with and advise clients with respect to size, color, design and placement of body art; use a demographor to permanently pigment the client's skin with chemical dyes; maintain health and safety procedures; and may apply temporary designs to client's skin.

Hair replacement technicians (non-medical)

- Prepare and apply custom-made hair pieces to customer's scalp, weave customer's hair to hair pieces and provide scalp treatments.

Employment requirements

- Completion of high school, college or beauty school programs for cosmeticians, estheticians, electrologists, manicurists and pedicurists is required or On-the-job training is provided.
- Electrologists usually require certification from an electrologist's educational or training institution.
- Membership in a provincial or national electrolysis association may be required.
- Completion of a registered dermal therapy program may be required to provide electrology laser and vascular treatments.
- Estheticians usually require certification from an esthetician's educational or training institution.
- Apprenticeship for electrologists, estheticians and nail technicians is available in Manitoba. Trade certification for these occupations is compulsory in that province.
- A business licence is required for workers in this group who are owners/operators of businesses offering these services.
- Practitioners offering these personal services are required to adhere to infection control procedures.

Additional information

- There is little or no mobility among the different occupations in this unit group without additional specialized training.

6322 Shoe repairers, shoemakers and upholsterers

This minor group comprises shoe repairers, shoemakers and upholsterers. They are employed by custom shoemaking establishments; shoe and furniture repair shops; and retail stores and outlets; or they may be self-employed.

63220 Shoe repairers and shoemakers

Shoe repairers repair footwear and shoemakers make specialized and custom shoes and boots. They are employed in shoe repair shops or custom shoemaking establishments, or they may be self-employed.

Illustrative example(s)

- bootmaker
- custom shoemaker

- orthopedic shoemaker
- shoe repairer
- shoemaker

Exclusion(s)

- Footwear sewer (See 94132-Industrial sewing machine operators)
- Labourer - shoe manufacturing (See 95109-Other labourers in processing, manufacturing and utilities)
- Shoe parts cutter - footwear manufacturing (See 95105-Labourers in textile processing and cutting)
- Shoe parts sewer (See 94132-Industrial sewing machine operators)
- Shoe sewer (See 94132-Industrial sewing machine operators)

Main duties

This group performs some or all of the following duties:

Shoemakers

- Discuss type of footwear to be made and obtain measurements from customer
- Select patterns and leather or other material and outline and cut patterns
- Select or assemble lasts, fasten insoles to lasts and sew or glue other parts into place
- Trim, dress and otherwise finish boots or shoes
- Estimate custom footwear costs and receive payment from customers
- May supervise other shoemakers and shoe repairers.

Shoe repairers

- Repair soles, heels and other parts of footwear using sewing, buffing and other shoe repair machines, materials and equipment
- Repair belts, luggage, purses and similar products
- Estimate footwear repair costs and take payment.

Employment requirements

- Some secondary school may be required.
- Several months of on-the-job training is provided for shoe repairers.
- Extensive on-the-job training is provided for shoemakers.
- Shoemakers may require experience as shoe repairers.

Additional information

- Shoe repairers may progress to shoemakers with experience.

63221 Upholsterers

Upholsterers cover furniture, fixtures and similar items with fabric, leather or other upholstery materials. They are employed by furniture, aircraft, motor vehicle and other manufacturing companies, furniture retail outlets and repair shops or they may be self-employed.

Illustrative example(s)

- automobile upholsterer

- custom upholsterer
- furniture upholsterer
- upholsterer
- upholstery repairer

Exclusion(s)

- Furniture and fixture assemblers, finishers, refinishers and inspectors (94210)
- Upholsterers supervisor (See 62029-Other services supervisors)
- Upholstery marker and cutter (See 95105-Labourers in textile processing and cutting)

Main duties

This group performs some or all of the following duties:

- Discuss upholstery fabric, colour, and style with customers and provide cost estimate for upholstering furniture or other items
- Lay out, measure and cut upholstery materials according to sketches or design specifications
- Replace worn-out webbing, springs and other furniture parts using hand and power tools
- Operate sewing machines or sew upholstery materials by hand to seam cushions and join sections of covering materials
- Install padding and underlays and fasten covering materials to furniture frames
- Tack, glue or sew ornamental trim, braids or buttons on upholstered items
- Lay out, cut, fabricate and install upholstery in aircrafts, motor vehicles, railway cars, boats and ships
- May repair furniture frames and refinish wood surfaces
- May make upholstery patterns from sketches, customer descriptions or blueprints
- May install, fabricate, maintain and repair interior components of aircraft, such as seats, coverings, drapes, cargo nets, flooring, closets, bins and panels.

Employment requirements

- Completion of secondary school is usually required.
- Completion of college or other specialized courses or an apprenticeship program in furniture upholstering and repair
or
Several years of on-the-job training, including working as an upholsterer helper are usually required.
- Trade certification is available, but voluntary, in Quebec.

Additional information

- Progression to supervisory positions is possible with experience.

64 Sales and service representatives and other customer and personal services occupations

This major group comprises sales and service representatives and other customer and personal services occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some

secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

641 Retail salespersons and non-technical wholesale trade sales and account representatives

This sub-major group comprises retail salespersons and non-technical wholesale trade sales and account representatives.

6410 Retail salespersons and non-technical wholesale trade sales and account representatives

This minor group comprises retail salespersons and non-technical wholesale trade sales and account representatives. They are employed by petroleum companies, food, beverage and tobacco producers, clothing manufacturers, motor vehicles and parts manufacturers, hotels, business services firms, and transportation companies, and other establishments that produce and provide goods and services; also by stores and other retail businesses, as well as wholesale businesses that sell on a retail basis to the public.

64100 Retail salespersons and visual merchandisers

Retail salespersons sell, rent or lease a range of technical and non-technical goods and services directly to consumers. Visual merchandisers plan, create and implement windows and in-store displays. They are employed by stores and other retail businesses, as well as wholesale businesses that sell on a retail basis to the public.

Illustrative example(s)

- audio equipment salesperson
- automobile salesperson
- car rental agent
- clothing salesperson
- computer salesperson - retail
- counter clerk - retail
- department store clerk
- display designer
- furniture salesperson
- hardware store clerk
- jewellery salesperson
- retail sales associate
- retail sales clerk
- retail salesperson
- sales consultant - retirement homes
- window display designer

Exclusion(s)

- Cashiers (65100)
- Sales clerk supervisor (See 62010-Retail sales supervisors)
- Stock clerk - retail (See 65102-Store shelf stockers, clerks and order fillers)

Main duties

This group performs some or all of the following duties:

Retail salespersons

- Greet customers and discuss type, quality and quantity of merchandise or services sought for purchase, rental or lease
- Advise customers on use and care of merchandise, and provide advice concerning specialized products or services
- Estimate or quote prices, credit terms, trade-in allowances, warranties and delivery dates
- Prepare merchandise for purchase, rental or lease
- Prepare sales, rental or leasing contracts and accept cash, cheque, credit card or automatic debit payment
- Assist in display of merchandise
- Maintain sales records for inventory control
- Operate computerized inventory record keeping and re-ordering systems
- May conduct sales transactions through Internet-based electronic commerce.

Visual merchandisers

- Design and implement window and interior displays
- Assemble visual retail displays to promote products, promotional events and seasonal change overs
- Ensure visual displays comply with brand guidelines and standards, including organization's culture, image and target markets
- Set up lighting systems to create a visual atmosphere.

Retail salespersons may specialize and act as consultants in home entertainment systems, computers and other products and services.

Employment requirements

- Completion of secondary school may be required.
- A university degree or college diploma may be required by some employers.
- Specific subject matter courses or training may be required.
- Demonstrated sales ability and product knowledge are usually required for retail salespersons who sell complex or valuable merchandise, such as automobiles, antiques or computers.
- Previous visual merchandising experience may be required.

Additional information

- Technical or sales training programs may be provided by employers.
- Progression to retail supervisory positions is possible with additional training or experience.

64101 Sales and account representatives - wholesale trade (non-technical)

Sales representatives in wholesale trade (non-technical), sell non-technical goods and services to retail, wholesale, commercial, industrial, professional and other clients domestically and internationally. They are employed by establishments that produce or provide goods and services such as petroleum companies, food, beverage and tobacco producers, clothing manufacturers, motor vehicles and parts manufacturers, hotels, business services firms, and transportation companies. Auctioneers are included in this unit group. Sales representatives in wholesale trade who are supervisors are also included in this unit group.

Illustrative example(s)

- advertising time sales representative
- food products sales representative
- freight sales agent
- graphic design sales representative
- hotel accommodations sales executive
- liquor sales representative
- magazine sales representative
- oil distributor
- security services sales consultant
- transfer company agent
- wholesale trade representatives supervisor

Exclusion(s)

- Advertising, marketing and public relations managers (10022)
- Retail salespersons and visual merchandisers (64100)
- Royalties manager - arts (See 50011-Managers - publishing, motion pictures, broadcasting and performing arts)
- Technical sales specialists - wholesale trade (62100)

Main duties

This group performs some or all of the following duties:

- Promote sales to existing clients
- Identify and solicit potential clients
- Provide clients with presentations on the benefits and uses of goods or services
- Estimate or quote prices, credit or contract terms, warranties and delivery dates
- Prepare or oversee preparation of sales or other contracts
- Consult with clients after sale or signed contracts to resolve problems and to provide ongoing support
- Review and adapt to information regarding product innovations, competitors and market conditions
- Represent companies that export and import products or services to and from foreign countries
- May conduct sales transactions through Internet-based electronic commerce
- May supervise the activities of other sales representatives.

Employment requirements

- Completion of secondary school is required.
- A university degree or completion of a college or other program may be required.
- Experience in sales or in an occupation related to the product or service is usually required.
- Fluency in a foreign language and/or foreign country work or travel experience may be required for sales representatives seeking employment with companies that import or export goods or services.
- Supervisors and senior sales representatives require experience.
- Voluntary certification is available from the Canadian Professional Sales Association.

Additional information

- Progression to sales management positions is possible with additional training or experience.

642 Occupations in personal service

This sub-major group comprises occupations in personal service, including tailors, dressmakers, furriers and milliners, and image, social and other personal consultants.

6420 Occupations in personal service

This minor group comprises occupations in personal service, including tailors, dressmakers, furriers and milliners, and image, social and other personal consultants. They are employed by dry cleaners and clothing alteration establishments; specialized image and social consultancy companies; and other specialized companies in personal and customer services; or they may be self-employed.

64200 Tailors, dressmakers, furriers and milliners

Tailors, dressmakers and furriers make, alter and repair tailored clothing, dresses, coats and other made-to-measure garments. Milliners make, alter and repair hats. This unit group also includes alterationists who fit, alter and repair garments. They are employed by clothing retailers, clothing alteration shops, dry cleaners and garment manufacturing companies or they may be self-employed.

Illustrative example(s)

- alterations dressmaker
- custom furrier
- custom tailor
- furrier
- garment alterationist
- milliner
- seamstress
- tailor

Exclusion(s)

- Couturier - haute couture (See 53123-Theatre, fashion, exhibit and other creative designers)

Main duties

This group performs some or all of the following duties:

Tailors, dressmakers and alterationists

- Make made-to-measure garments, such as dresses, suits and coats according to customers' and clothing manufacturers' specifications and fit
- Design, select and/or modify commercial patterns to customers' and clothing manufacturers' specifications
- Fit, mark, cut and sew fabric
- Fit, alter and repair garments according to customers' requests by hand or using sewing machines.

Furriers

- Make, alter, restyle and repair natural fur garments and accessories.

Milliners

- Design, lay out, cut, sew and press fabric, leather and other materials into hats and related accessories.

Employment requirements

- Completion of secondary school may be required.
- Tailors and dressmakers require demonstrated ability to sew, style and fit men's or women's garments and may require completion of college or other courses in tailoring or dressmaking.
- Furriers require several years of experience in selecting pelts and making, fitting, styling and altering fur garments and accessories.
- Milliners require demonstrated ability to sew, style and fit hats and caps.
- Alterationists require demonstrated ability to sew, alter and repair garments.

64201 Image, social and other personal consultants

Image, social and other personal consultants advise clients on their personal appearance, speaking style, manners or other behaviours in order to improve personal or business images. They are employed by beauty salons, fashion boutiques, modelling schools, image consulting companies, weight loss centres or they may be self-employed.

Illustrative example(s)

- etiquette consultant
- fashion and wardrobe consultant
- fashion colour consultant
- image consultant
- make-up consultant
- public speaking consultant
- wardrobe consultant
- wedding consultant
- weight loss consultant

Exclusion(s)

- Cosmetician (See 63211-Estheticians, electrologists and related occupations)
- Hairstylists and barbers (63210)
- Manicurist (See 63211-Estheticians, electrologists and related occupations)
- Other instructors (43109)
- Other support occupations in personal services (65229)

Main duties

This group performs some or all of the following duties:

Image consultants

- Advise clients on hair colour, hairstyles, make-up, clothing and accessories; may advise on posture, general appearance and manners, and provide courses and seminars on business and social etiquette
- Advise clients on type, colour and application of make-up
- Advise clients on choice of colours for clothing that will complement their appearance.

Wedding consultants

- Advise clients on the selection of wedding gowns, floral arrangements, banquet facilities, wedding invitations and other items related to weddings.

Weight loss consultants

- Administer commercial weight-loss programs, advise clients on diet and exercise and provide related support services.

Employment requirements

- Completion of secondary school is usually required.
- Specialized training courses are available for colour consultants, make-up and skin care consultants, weight loss consultants and most other occupations in this unit group.
- Experience and expertise in fashion, art, modelling or related fields is usually required.

643 Occupations in food, accommodation and tourism

This sub-major group comprises occupations in food and beverage service; in travel and accommodation; and in tourism and amusement services.

6430 Occupations in food and beverage service

This minor group comprises occupations in food and beverage service, including Maîtres d'hôtel and hosts/hostesses, and bartenders. They are employed by restaurants, hotel dining rooms, private clubs, cocktail lounges, bars, taverns, banquet halls and similar establishments.

64300 Maîtres d'hôtel and hosts/hostesses

Maîtres d'hôtel and hosts/hostesses greet patrons and escort them to tables, and supervise and coordinate the activities of food and beverage servers. They are employed in restaurants, hotel dining rooms, private clubs, cocktail lounges and similar establishments.

Illustrative example(s)

- chief host/hostess - food services
- dining room host/hostess
- maître d'
- restaurant host/hostess

Exclusion(s)

- Food and beverage servers (65200)
- Food service supervisors (62020)

Main duties

This group performs some or all of the following duties:

- Receive and record patrons' reservations and assign tables
- Greet patrons and escort them to tables or other seating areas
- Speak with patrons to ensure satisfaction with food and service, and attend to complaints
- Order dining room supplies and equipment
- Inspect dining and serving areas and equipment

- Supervise and coordinate activities of food and beverage servers and other serving staff
- Accept payment from patrons for food and beverages
- Maintain financial statements and records
- Prepare work schedules and payrolls
- Interview candidates for food and beverage server positions and train new employees
- May be responsible for marketing and advertising the dining establishment.

Employment requirements

- Completion of secondary school is usually required.
- Several weeks of on-the-job training are usually required.
- Maîtres d'hôtel require experience as a formal or captain waiter/waitress or other food service experience.

64301 Bartenders

Bartenders mix and serve alcoholic and non-alcoholic beverages. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and other licensed establishments. Supervisors of bartenders are included in this unit group.

Illustrative example(s)

- bar attendant
- bar steward
- bartender
- head bartender

Exclusion(s)

- Bar manager (See 60030-Restaurant and food service managers)
- Food and beverage servers (65200)

Main duties

Bartenders perform some or all of the following duties:

- Take beverage orders from serving staff or directly from patrons
- Mix liquor, soft drinks, water and other ingredients to prepare cocktails and other drinks
- Prepare mixed drinks, wine, draft or bottled beer and non-alcoholic beverages for food and beverage servers or serve directly to patrons
- Collect payment for beverages and record sales
- Maintain inventory and control of bar stock and order supplies
- Clean bar area and wash glassware
- Ensure compliance with provincial/territorial liquor legislation and regulations
- May train and supervise other bartenders and bar staff
- May hire and dismiss staff.

Employment requirements

- Completion of secondary school may be required.
- Completion of college or other program in bartending or
Completion of courses in mixing drinks is usually required.
- Responsible beverage service certification may be required.

Additional information

- Progression to managerial positions in food and beverage service is possible with experience.

6431 Occupations in travel and accommodation

This minor group comprises occupations in travel and accommodation, including travel counsellors; pursers and flight attendants; airline ticket and service agents; ground and water transport ticket agents, cargo service representatives, and related clerks; and hotel front desk clerks. They are employed by travel agencies, transportation and tourism firms, travel wholesalers, bus, railway, airline, tour boat and cruise ship companies, public transit establishments, hotels, motels, resorts and freight forwarding and shipping companies.

64310 Travel counsellors

Travel counsellors advise clients on travel options and tour packages, make bookings and reservations, prepare tickets and receive payment. They are employed in travel agencies, transportation and tourism firms and hotel chains.

Illustrative example(s)

- reservation agent - travel agency
- travel agent
- travel consultant

Exclusion(s)

- Airline ticket agent (See 64312-Airline ticket and service agents)
- Convention coordinator (See 12103-Conference and event planners)
- Travel agency manager (See 60020-Retail and wholesale trade managers)

Main duties

This group performs some or all of the following duties:

- Provide travel information to clients regarding destinations, transportation and accommodation options and travel costs, and recommend suitable products
- Plan and organize vacation travel for individuals or groups
- Make transportation and accommodation reservations using computerized reservation and ticketing system
- Sell single fare tickets and package tours to clients
- Promote particular destinations, tour packages and other travel services
- Investigate new travel destinations, hotels and other facilities and attractions
- Provide travel tips regarding tourist attractions, foreign currency, customs, languages and travel safety.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma or vocational training in travel or tourism is usually required.
- Certification with the Association of Canadian Travel Agencies (ACTA) may be required.

Additional information

- Progression to managerial positions is possible with experience.

64311 Purser and flight attendants

Pursers and flight attendants ensure the safety and comfort of passengers and crew members during flights. Ship pursers attend to the safety and comfort of passengers aboard ships. Airline pursers and flight attendants are employed by airline companies. Ship pursers are employed by tour boat or cruise ship companies.

Illustrative example(s)

- airline purser
- flight attendant
- flight service director
- passenger service director - water transportation
- ship purser

Exclusion(s)

- Food and beverage servers (65200)
- Support occupations in accommodation, travel and facilities set-up services (65210)

Main duties

This group performs some or all of the following duties:

Flight attendants

- Greet passengers, explain and demonstrate safety procedures, check the general condition of the aircraft cabin, ensure that all necessary supplies are on board
- Attend to safety of passengers during take-offs, landings and emergencies
- Serve food and beverages to passengers and make flight announcements.

Flight pursers, customer service directors and passenger service directors

- Coordinate the activities of flight attendants, provide service to passengers during flight and complete reports.

Ship pursers

- Supervise ship attendants and arrange activities for passengers
- Conduct ship's business, such as signing on crew, maintaining payroll records, assisting passengers in preparing customs declarations and supervising baggage storage.

Employment requirements

- Flight attendants and flight pursers require the completion of secondary school and a training program approved by Transport Canada.
- Flight pursers/customer service directors require experience as a flight attendant.
- Ship pursers may require experience as a ship attendant.
- Flight attendants and ship pursers usually require experience working with the public.

Additional information

- There is little mobility between airline pursers and ship pursers.
- It is an advantage for pursers and flight attendants to speak more than one language.

64312 Airline ticket and service agents

Airline ticket and service agents issue tickets, provide fare quotations, make reservations, conduct passenger check-in, trace missing baggage, arrange for cargo shipments and perform other related customer service duties to assist airline passengers. They are employed by airline companies.

Illustrative example(s)

- airline baggage agent
- airline cargo agent
- airline load planner
- airline passenger agent
- airline reservation agent
- airline ticket agent
- baggage tracer - airline
- client service representative - airline
- counter services agent - airline
- customer service agent - airline
- station agent - airline

Exclusion(s)

- Airline sales and service agents supervisor (See 62022-Accommodation, travel, tourism and related services supervisors)
- Baggage handler (See 65210-Support occupations in accommodation, travel and facilities set-up services)
- Ground and water transport ticket agents, cargo service representatives and related clerks (64313)
- Travel counsellors (64310)

Main duties

This group performs some or all of the following duties:

Airline passenger, baggage and ticket agents

- Help customers plan travel time and routes, prepare and issue tickets, assign seats, prepare boarding passes, check baggage, attend boarding gates
- Assist pre-boarding passengers and provide information on fares and flight schedules and routes
- Trace lost, delayed or misdirected baggage for customers.

Airline cargo and freight agents

- Weigh cargo and compute freight costs, calculate charges for services and insurance, process bills of lading, cargo manifests and other documents
- Trace lost or misdirected cargo and maintain shipping and other records
- Complete pre-flight documents regarding passenger and cargo load, catering count, special requests and other flight information
- Relay operational messages to operations control and downline stations
- Calculate load weights for compartments of aircraft using charts and computers
- Plan load to distribute and balance cargo.

Airline reservation agents

- Reserve seats for tour companies, travel agencies, wholesalers and the general public using computerized systems
- Provide information on airline passengers and process mileage points.

Employment requirements

- Completion of secondary school is usually required.
- Several weeks of on-the-job and classroom training are provided for all occupations in this unit group.
- Airline station agents usually require experience as a ticket, baggage or cargo agent.
- Load planners require a restricted radio operator's licence and usually require airline operations experience.

Additional information

- Depending on the size of the airline or airport, the duties of workers in this unit group may overlap.
- Progression to supervisory positions is possible with experience.

64313 Ground and water transport ticket agents, cargo service representatives and related clerks

Ground and water transport ticket agents, cargo service representatives and related clerks, quote fares and rates, make reservations, issue tickets, process cargo shipments, check baggage and perform other related customer service duties to assist travellers. They are employed by bus and railway companies, freight forwarding and shipping companies, boat cruise operators and other public transit establishments and by travel wholesalers.

Illustrative example(s)

- bus ticket agent
- cargo customer service representative - railway
- counter service agent - railway
- railway passenger agent
- railway reservations clerk
- reservations clerk - cruise line
- ticket agent (except airline)

Exclusion(s)

- Accommodation, travel, tourism and related services supervisors (62022)
- Airline ticket and service agents (64312)
- Travel counsellors (64310)

Main duties

This group performs some or all of the following duties:

Ticket agents

- Answer customer inquiries, quote fares and assist clients in planning travel times and routes
- Reserve seats for tour companies, travel agencies, wholesalers and the general public
- Issue tickets, handle cash transactions and check baggage
- Receive and record bookings for package tours from retail travel agencies and supply information regarding available vacancies when working for wholesale travel companies.

Cargo service representatives

- Quote fare and rates for cargo shipment
- Compute shipment costs including charges for services and insurance using rate tables and schedules and prepare and maintain shipping and other documents
- Check in passenger baggage and sort for loading by baggage handlers or may load baggage directly into buses, railway cars or cruise ships
- Trace lost or misdirected passenger baggage or cargo shipment.

Employment requirements

- Completion of secondary school is usually required.
- Up to 10 weeks of training may be provided.

Additional information

- Ticket agents and cargo service representatives may perform the same duties depending on the size and location of the operations.
- Progression to supervisory positions is possible through experience.

64314 Hotel front desk clerks

Hotel front desk clerks make room reservations, provide information and services to guests and receive payment for services. They are employed by hotels, motels and resorts.

Illustrative example(s)

- guest services agent - hotel
- hotel front desk clerk
- night clerk
- reservations clerk - hotel
- room clerk

Exclusion(s)

- Hotel clerk supervisor (See 62022-Accommodation, travel, tourism and related services supervisors)
- Travel counsellors (64310)

Main duties

This group performs some or all of the following duties:

- Maintain an inventory of vacancies, reservations and room assignments
- Register arriving guests and assign rooms
- Answer enquiries regarding hotel services and registration by letter, by telephone and in person, provide information about services available in the community and respond to guests' complaints
- Compile and check daily record sheets, guest accounts, receipts and vouchers using computerized or manual systems
- Present statements of charges to departing guests and receive payment.

Employment requirements

- Completion of secondary school or equivalent is usually required.
- Completion of a two-year apprenticeship program, or a college program in front desk operations or hotel management may be required.
- Guest services representative trade certification is available, but voluntary, in Saskatchewan.

Additional information

- Progression to senior positions such as accommodations manager is possible with additional training and experience.

6432 Tourism and amusement services occupations

This minor group comprises tourism and amusement services occupations, including tour and travel guides; casino workers; and outdoor sport and recreational guides. They are employed by tour operators, resorts and other establishments, casinos and private companies; or they may be self-employed.

64320 Tour and travel guides

Tour and travel guides escort individuals and groups on trips, on sightseeing tours of cities and on tours of historical sites and establishments such as famous buildings, manufacturing plants, cathedrals and theme parks. They also provide descriptions and background information on interesting features. They are employed by tour operators, resorts and other establishments or may be self-employed.

Illustrative example(s)

- adventure travel site interpreter
- bicycle tour guide
- calèche driver
- factory tour guide
- industrial site interpreter
- tour guide
- travel guide

Exclusion(s)

- Historical interpreter (See 53100-Registrars, restorers, interpreters and other occupations related to museum and art galleries)
- Museum interpreter (See 53100-Registrars, restorers, interpreters and other occupations related to museum and art galleries)
- Outdoor sport and recreational guides (64322)
- Tour operator (See 60040-Managers in customer and personal services)

Main duties

This group performs some or all of the following duties:

Tour guides

- Transport or escort individuals or groups on tours of cities, waterways and industrial and other establishments
- Describe points of interest, answer questions and supply information
- Provide historical and cultural facts related to the site
- May collect admission fees and sell souvenirs.

Travel guides

- Escort individuals and groups on vacation and business trips
- Ensure that reservations for transportation and accommodations are confirmed and that prepared itineraries are met
- Visit and describe points of interest and plan and carry out recreational activities
- Resolve problems with itineraries, service and accommodations.

Employment requirements

- On-the-job training is provided.
- Knowledge of both official languages or an additional language may be required for some positions in this group.

64321 Casino workers

Casino workers operate gaming tables, assist patrons using slot machines, accept keno wagers, pay out winning bets and jackpots and collect losing bets. They are employed by casinos.

Illustrative example(s)

- croupier
- keno runner - casino
- keno writer

Inclusion(s)

- guest service representative - casino

Exclusion(s)

- Casino dealer supervisor (See 62022-Accommodation, travel, tourism and related services supervisors)
- Operators and attendants in amusement, recreation and sport (65211)

Main duties

This group performs some or all of the following duties:

- Operate gaming tables and games such as roulette, blackjack, keno, baccarat and poker
- Monitor and assist patrons using slot machines
- Explain rules of games to patrons and ensure that rules are followed
- Accept keno wagers and issue computerized tickets for selection
- Determine winners or announce winning numbers
- Calculate and pay out winning bets and jackpots, collect losing bets and maintain related reports
- Replenish and reset slot machines
- May perform minor adjustments or repairs to slot machines.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided for gaming table dealers.
- Security clearance is required for all casino workers.
- Casino gaming licences are usually required for all casino employees.

Additional information

- Progression to supervisory positions is possible with experience in all activities related to gaming.

64322 Outdoor sport and recreational guides

Outdoor sport and recreational guides organize and conduct trips or expeditions for sports enthusiasts, adventurers, tourists and resort guests. They are employed by private companies and resorts or may be self-employed.

Illustrative example(s)

- canoeing guide
- dude wrangler
- fishing guide
- hot air balloonist
- hunting guide
- mountain climbing guide
- outdoor guide
- outfitter
- rafting guide

Inclusion(s)

- zipline guide

Exclusion(s)

- Program leaders and instructors in recreation, sport and fitness (54100)
- Tour and travel guides (64320)

Main duties

This group performs some or all of the following duties:

- Plan itinerary for trip or expedition and arrange transportation or transport individuals or group to site
- Assemble and inspect necessary equipment and supplies, such as camping gear, hot air balloon, rafts, life jackets, fishing tackle and food
- Lead or escort individuals or groups and advise on safety and emergency measures, techniques and the use of equipment
- Provide instruction for activities such as canoeing, rafting and mountain climbing
- Advise on specific laws and regulations for activities such as hunting, fishing and boating
- Follow environmental guidelines and prevent violations
- Provide first aid in emergency situations
- May prepare meals for group and set up camp.

Employment requirements

- Knowledge of a particular terrain or body of water, demonstrated ability in the guided activity and relevant licences and certifications are required for employment in this group.
- Hot air balloon pilots require completion of 10 hours of ground school, 16 hours of pilot-in-command experience and a Balloon Pilot Licence issued by Transport Canada. Additional hours of pilot-in-command experience may be required by some employers.
- Certification in first aid and CPR (cardiopulmonary resuscitation) may be required.

Additional information

- Outdoor sport and recreational guides usually work on a seasonal basis.

644 Occupations in customer, information and protective services

This sub-major group comprises occupations in customer, information and protective services, including customer and information services representatives, and security guards and related security service occupations.

6440 Customer and information services representatives

This minor group comprises customer and information services representatives, including customer services representatives in financial institutions; postal services representatives; and other customer and information services representatives. They are employed by banks, trust companies, credit unions and similar financial institutions; retail establishments, contact centres, insurance, telephone and utility companies; Canada Post Corporation, courier and parcel express companies and establishments; and other establishments throughout the public and private sectors.

64400 Customer services representatives - financial institutions

Customer services representatives in financial institutions process customers' financial transactions and provide information on related banking products and services. They are employed by banks, trust companies, credit unions and similar financial institutions.

Illustrative example(s)

- bank teller
- credit union teller

- financial customer service representative
- foreign exchange teller - financial services

Exclusion(s)

- Banking, insurance and other financial clerks (14201)
- Customer service representatives supervisor - financial services (See 62023-Customer and information services supervisors)
- Financial sales representatives (63102)
- Other customer and information services representatives (64409)
- Supervisors, finance and insurance office workers (12011)

Main duties

This group performs some or all of the following duties:

- Process customer cash deposits and withdrawals, cheques, transfers, bills and credit card payments, money orders, certified cheques and other related banking transactions
- Obtain and process information required for the provision of services, such as opening accounts and savings plans and purchasing bonds
- Sell travellers' cheques, foreign currency and money orders
- Answer enquiries and resolve problems or discrepancies concerning customers' accounts
- Inform customers of available banking products and services to address their needs.

Employment requirements

- Completion of secondary school is required.
- A college diploma in business administration may be required.
- On-the-job training is provided.

Additional information

- Progression to supervisory positions is possible with experience.

64401 Postal services representatives

Postal services representatives serve customers and record transactions at sales counters and postal wickets. They maintain inventory and order supplies in post offices and internal mail rooms. They are employed by Canada Post Corporation, courier and parcel express companies and establishments throughout the public and private sectors.

Illustrative example(s)

- bus parcel express clerk
- express mail service clerk
- mail clerk
- mail room clerk
- postal counter clerk
- postal wicket clerk

Exclusion(s)

- Couriers and messengers (74102)
- Letter carriers (74101)
- Mail and parcel sorters and related occupations (74100)
- Supervisors, mail and message distribution occupations (72025)

Main duties

This group performs some or all of the following duties:

- Calculate and affix the correct postage on letters, parcels and registered mail and receive payment from customers
- Sell stamps, prepaid mail and courier envelopes and money orders
- Route mail to the proper delivery stream
- Sign or obtain signatures from recipients for registered or special delivery mail and keep records
- Answer inquiries and complete forms regarding change of address, theft or loss of mail
- Record and balance daily transactions.

Employment requirements

- Completion of secondary school and some college office administration courses may be required.
- On-the-job training is required.
- Physical fitness may be required for some occupations in this unit group.

Additional information

- Progression to supervisory or facility management positions is possible with additional training or experience.

64409 Other customer and information services representatives

Other customer and information services representatives answer enquiries, provide information regarding an establishment's goods, services and policies and provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, contact centres, insurance, telecommunications and utility companies and other establishments throughout the public and private sectors.

Illustrative example(s)

- accounts information clerk
- bus information clerk
- complaints clerk - customer service
- contact centre agent - customer service
- courtesy desk clerk
- customer service representative - call centre
- enquiries clerk
- information clerk - customer service
- lost-and-found clerk
- order desk agent

- public relations clerk
- tourist information clerk

Exclusion(s)

- Airline ticket and service agents (64312)
- Customer and information services supervisors (62023)
- Customer services representatives - financial institutions (64400)
- Receptionists (14101)
- Retail salespersons and visual merchandisers (64100)
- Ticket and information clerk (except airline) (See 64313-Ground and water transport ticket agents, cargo service representatives and related clerks)

Main duties

This group performs some or all of the following duties:

Customer services representatives in retail establishments

- Answer, in person or on the phone, enquiries from customers
- Investigate complaints regarding the establishment's goods, services and policies
- Arrange for refunds, exchange and credit for returned merchandise
- Receive account payments
- Receive credit and employment applications.

Contact centre agents

- Take customer orders for goods or services
- Promote goods or services
- Respond to enquiries and emergencies
- Investigate complaints and update accounts.

Customer service representatives in insurance, telecommunication, utility and similar companies

- Explain the type and cost of services offered
- Order services
- Provide information about claims or accounts
- Update accounts, initiate billing and process claim payments, and receive payment for services.

Information services representatives

- Provide information to customers and the public concerning goods, services, schedules, rates, regulations and policies in response to telephone and in-person enquiries.

Employment requirements

- Completion of secondary school is usually required.
- Completion of some college or other post-secondary programs may be required.
- Clerical or sales experience may be required.

Additional information

- Progression to supervisory positions is possible with experience.

6441 Security guards and related security service occupations

This minor group comprises security guards and related security service occupations, including security guards, armoured car guards, corporate security officers, private investigators, retail loss prevention officers and workers in other related security service occupations. They are employed by public and private security agencies; residential complexes; educational, cultural, financial and health institutions; retail establishments; investigation service companies; transportation facilities; and organizations throughout the public and private sectors; or they may be self-employed.

64410 Security guards and related security service occupations

Security guards and workers in related security service occupations guard and implement security measures to protect property against theft, vandalism and fire; to control access to establishments; to maintain order and enforce regulations at public events and within establishments; to perform screening of passengers, luggage or cargo; to conduct private investigations for clients or employers and to provide other protective services not elsewhere classified. They are employed by public or private security agencies, residential complexes, educational, cultural, financial and health institutions, retail establishments, investigation service companies, transportation facilities, and organizations throughout the public and private sectors, or they may be self-employed.

Illustrative example(s)

- alarm investigator
- armoured car guard
- bodyguard (except police)
- commissionaire
- corporate security officer
- house detective
- night guard
- postal inspection officer
- private investigator
- private security officer
- screening officer
- security guard
- store detective
- theft prevention officer

Exclusion(s)

- Correctional service officers (43201)
- Police investigators and other investigative occupations (41310)
- investigation and security service manager (See 10029-Other business services managers)
- Security guard supervisor (See 62029-Other services supervisors)
- Security service manager (See 10029-Other business services managers)

Main duties

This group performs some or all of the following duties:

Security guards

- Control access to establishments, operate security control-room equipment and patrol assigned areas to guard against theft, vandalism and fire
- Enforce regulations to maintain order and resolve conflicts and to monitor establishment activities
- Ensure safety and emergency procedures are followed
- Issue passes and direct visitors to appropriate areas and check age identification of patrons.

Screening officers

- Inspect and screen luggage or cargo using equipment or hands
- Perform searches of passengers with tools or by hand
- Monitor and screen passengers through screening checkpoints and other procedures.

Armoured car guards

- Drive and guard armoured trucks, pick-up and deliver cash and valuables to banks, automated teller machines and retail establishments.

Corporate security officers

- Investigate unlawful acts of employees or patrons of establishments
- Recommend security systems such as electronic detection devices and access devices.

Private investigators

- Conduct investigations to locate missing persons
- Obtain information for use in civil and criminal litigation matters or for other purposes
- May also conduct polygraph tests (integrity surveys) for clients.

Retail loss prevention officers

- Prevent and detect shoplifting and theft in retail establishments.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma in law and security or police technology may be required.
- Canadian Air Transport Security Authority (CATSA) certification is required for screening officers.
- Security guards carrying firearms require a licence.
- Armoured car drivers require a valid Possession and Acquisition Licence (PAL) for both restricted and non-restricted firearms.
- In Quebec, a permit issued by the Bureau de la sécurité privée (BSP) is required to work as a private detective or security officer.
- Corporate security officers may require experience as a police officer.
- Private investigators require provincial licensure.
- Certification for responsible beverage service is mandatory for security staff in establishments serving alcoholic beverages in Alberta, Saskatchewan, Manitoba, Ontario and Prince Edward Island.

65 Sales and service support occupations

This major group comprises sales and service support occupations. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

651 Sales support occupations

This sub-major group comprises cashiers and other sales support occupations.

6510 Cashiers and other sales support occupations

This minor group comprises cashiers; service station attendants; store shelf stockers, clerks and order fillers; and other sales related occupations. They are employed in stores, restaurants, theatres, recreational and sports establishments, currency exchange booths, government offices, business offices and other service, retail and wholesale establishments; and by automotive service stations, marinas, manufacturers, telemarketing companies and call centres and warehouses; or they may be self-employed.

65100 Cashiers

Cashiers operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions. They are employed in stores, restaurants, theatres, recreational and sports establishments, currency exchange booths, government offices, business offices and other service, retail and wholesale establishments.

Illustrative example(s)

- box office cashier
- cafeteria cashier
- grocery store cashier
- movie theatre cashier
- office cashier
- racetrack cashier
- self-serve gas bar cashier

Exclusion(s)

- Customer services representatives - financial institutions (64400)
- Head cashier (See 62010-Retail sales supervisors)
- Retail salespersons and visual merchandisers (64100)
- Service station attendants (65101)

Main duties

This group performs some or all of the following duties:

- Greet customers
- Establish or identify price of goods, services or admission and tabulate total payment required using electronic or other cash register, optical price scanner or other equipment
- Weigh produce and bulk foods
- Receive and process payments by cash, cheque, credit card or automatic debit
- Wrap or place merchandise in bags

- Provide information to customers
- Assist sports spectators and theatre patrons with seat selection
- Calculate foreign currency exchange
- Calculate total payments received at end of work shift and reconcile with total sales
- Verify the age of customers when selling lottery tickets, alcohol or tobacco products
- May accept reservations and take-out orders
- May also stock shelves and clean check-out counter area.

Employment requirements

- Some secondary school education is usually required. A high school diploma may be required by some employers.
- A casino gaming licence may be required for cashiers working in gambling casinos.

Additional information

- Cashiers may progress to supervisory positions, such as head cashier, with additional training or experience.

65101 Service station attendants

Service station attendants employed in automotive service stations sell fuel and other automotive products and perform such services as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles. Those employed in marinas sell fuel, rent boats and related equipment, and maintain marina facilities.

Illustrative example(s)

- gas station attendant (except self-serve)
- marina attendant
- service station attendant

Exclusion(s)

- Automotive service technician (See 72410-Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Retail sales supervisors (62010)
- Self-serve gas bar cashier (See 65100-Cashiers)
- Service station manager (See 60020-Retail and wholesale trade managers)

Main duties

This group performs some or all of the following duties:

Automotive service station attendants

- Refuel vehicles
- Perform minor service and maintenance such as washing the windshield, checking fluid levels and air pressure, and replacing parts such as tires, light bulbs and windshield-wiper blades
- Receive payment from customers
- Perform minor property maintenance duties such as sweeping service station lot, trimming shrubs, scrubbing service bays and painting curbs
- May pick up and deliver customers' cars for service station automotive repair department.

Marina service station attendants

- Refuel boats
- Pump boat's marine septic system
- Rent boats, life jackets and other equipment and record rental data
- Receive payment from customers
- Maintain dock area and marina facilities and assist in seasonal moving of ramps and docks.

Employment requirements

- Some secondary school education is usually required.
- Propane and natural gas pump attendants may require an operator's licence.

65102 Store shelf stockers, clerks and order fillers

Store shelf stockers, clerks and order fillers pack customers' purchases, price items, stock shelves with merchandise, and fill online, mail and telephone orders. They are employed in retail establishments, such as grocery, hardware and department stores, and in warehouses.

Illustrative example(s)

- bag clerk
- fulfillment associate
- grocery clerk
- grocery packer
- price clerk - retail
- produce clerk
- shelf stocker - retail
- supermarket clerk

Exclusion(s)

- Cashiers (65100)
- Material handlers (75101)
- Other sales related occupations (65109)
- Retail sales supervisors (62010)
- Retail salespersons and visual merchandisers (64100)

Main duties

This group performs some or all of the following duties:

- Bag, box or parcel purchases for customers at stores or for shipment and delivery to customers
- Carry customers' purchases to parking lot and pack in vehicles
- Unpack products received by store and count, weigh or sort items
- Use barcode scanning equipment to record incoming stock, verify pricing and maintain computerized stock inventory
- Price items using stamp or stickers according to price list
- Attach protective devices to products to protect against shoplifting
- Stock shelves and display areas and keep stock clean and in order

- Label and document orders, and prepare shipping, customs and courier documentation when required
- Obtain articles for customers from shelf or stockroom
- Direct customers to location of articles sought and assist with inquiries
- Enter, track and process customer orders and generate inventory reports
- May operate carts, dollies, forklifts, hand trucks, order pickers and other powered industrial trucks (PIT)
- May sweep aisles, dust display racks and perform other general cleaning duties
- May operate cash register and computer for electronic commerce transactions
- May order stock.

Employment requirements

- Some secondary school education is usually required.

65109 Other sales related occupations

Workers in other sales related occupations sell goods or services during home demonstrations or by telephone soliciting, retail exhibitions or street vending. They are employed by a wide range of retail and wholesale establishments, manufacturers, telemarketing companies and call centres, or they may be self-employed.

Illustrative example(s)

- canvasser - retail
- demonstrator - retail
- direct distributor - retail
- door-to-door salesperson
- home demonstrator - retail
- street vendor
- telemarketer
- telephone solicitor

Exclusion(s)

- Cashiers (65100)
- Kiosk sales clerk (See 64100-Retail salespersons and visual merchandisers)
- Retail and wholesale trade managers (60020)
- Retail sales supervisors (62010)

Main duties

This group performs some or all of the following duties:

Demonstrators and direct distributors

- Contact potential customers by phone or through personal contacts
- Arrange sales demonstration appointments, and show, describe and sell goods or services at wholesale, retail and industrial establishments, at exhibitions, trade shows or directly to individual customers or at sales parties in private homes
- Deliver purchased goods to customers.

Door-to-door salespersons and street vendors

- Solicit sales and sell merchandise to residents of private homes
- Set up and display merchandise on sidewalks or at public events to sell to the public.

Telephone solicitors and telemarketers

- Contact businesses or private individuals, by telephone, to solicit sales for goods or services.

Employment requirements

- Some secondary school education is usually required. A high school diploma may be required by some employers.
- Self-employed street vendors and door-to-door salespersons may require a municipal merchant's permit.

Additional information

- Progression to related supervisory positions is possible with additional training or experience.

652 Support occupations in food, accommodation and tourism

This sub-major group comprises support occupations in food, accommodation and tourism services, and in personal services.

6520 Food support occupations

This minor group comprises food support occupations, including food and beverage servers; food counter attendants, kitchen helpers and related support occupations; and meat cutters and fishmongers in retail and wholesale. They are employed by restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other establishments.

65200 Food and beverage servers

Food and beverage servers take patrons' food and beverage orders and serve orders to patrons. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and similar establishments.

Illustrative example(s)

- banquet server
- captain waiter/waitress
- chief wine steward
- cocktail waiter/waitress
- food and beverage server
- formal service waiter/waitress
- sommelier
- waiter/waitress
- wine steward

Inclusion(s)

- banquet captain

Exclusion(s)

- Food service supervisors (62020)
- Maitres d'hôtel and hosts/hostesses (64300)
- Restaurant and food service managers (60030)

Main duties

This group performs some or all of the following duties:

- Greet patrons, present menus, make recommendations and answer questions regarding food and beverages
- Take orders and relay to kitchen and bar staff
- Recommend wines that complement patrons' meals
- Serve food and beverages
- Prepare and serve specialty foods at patrons' tables
- Present bill to patrons and accept payment
- May order and maintain inventory of wines and wine glassware
- May perform sensory evaluation of wines.

Employment requirements

- Completion of secondary school may be required.
- Formal waiters/waitresses may require completion of a one- or two-year apprenticeship program or College or vocational school courses.
- An apprenticeship program for food and beverage servers is available, but voluntary, in Quebec and Saskatchewan.
- On-the-job training is usually provided.
- Sommeliers may require courses in wine selection and service or Experience as a formal waiter/waitress.
- Responsible beverage service certification is usually required for employees serving alcoholic beverages.

65201 Food counter attendants, kitchen helpers and related support occupations

Food counter attendants and food preparers prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages. They are employed by restaurants, cafés, hotels, fast food outlets, cafeterias, hospitals and other establishments.

Illustrative example(s)

- bartender helper
- bus boy/girl
- cafeteria counter attendant
- cook's helper
- dishwasher
- fast-food preparer

- food counter attendant
- food preparer
- food service helper
- ice cream counter attendant
- kitchen helper
- salad bar attendant
- sandwich maker

Exclusion(s)

- Chefs (62200)
- Cooks (63200)
- Food and beverage servers (65200)
- Food service supervisors (62020)

Main duties

This group performs some or all of the following duties:

Food counter attendants and food preparers

- Take customers' orders
- Clean, peel, slice and trim foodstuffs using manual and electric appliances
- Use deep fryer, grill, oven, dispensers and other equipment to prepare fast food items such as sandwiches, hamburgers, fries, salads, ice cream dishes, milkshakes and other beverages
- Portion, assemble, and wrap food or place it directly on plates for service to patrons, and package take-out food
- Use equipment to prepare hot beverages such as coffee and tea specialties
- Serve customers at counters or buffet tables
- Stock refrigerators and salad bars and keep records of the quantities of food used
- May receive payment for food items purchased.

Kitchen helpers

- Wash and peel vegetables and fruit
- Wash work tables, cupboards and appliances
- Remove trash and clean kitchen garbage containers
- Unpack and store supplies in refrigerators, cupboards and other storage areas
- Sweep and mop floors, and perform other duties to assist cook and kitchen staff.
- Food service helpers
- Clear and clean tables and trays in eating establishments
- Bring clean dishes, flatware and other items to serving areas and set tables
- Replenish condiments and other supplies at tables and in serving areas
- Remove dishes before and after courses
- Perform other duties such as scraping and stacking dishes, carrying linen to and from laundry area and running errands.

Dishwashers

- Wash dishes, glassware, flatware, pots and pans using dishwasher or by hand
- Place dishes in storage area
- Scour pots and pans, and may clean and polish silverware.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.

Additional information

- There is considerable mobility among jobs in this unit group.
- Movement into other occupations within food preparation and service, such as cook or waiter, is possible with further training and experience.

65202 Meat cutters and fishmongers - retail and wholesale

Meat cutters and fishmongers prepare and package pieces of meat, poultry and fish that are sold by food retailers or wholesalers. They use tools to cut, trim and package meat, poultry and fish on a daily basis. They are employed in grocery stores, fish stores, or they may be self-employed.

Illustrative example(s)

- fishmonger
- fishmonger - retail
- meat cutter - retail or wholesale
- supermarket meat cutter

Exclusion(s)

- Butchers - retail and wholesale (63201)
- Fish cutter - fish processing (See 94142-Fish and seafood plant workers)
- Industrial butchers and meat cutters, poultry preparers and related workers (94141)
- Seafood sales clerk (See 64100-Retail salespersons and visual merchandisers)

Main duties

This group performs some or all of the following duties:

- Grind meats and slice cooked meats using powered grinders and slicing machines
- Cut, weigh, package, label and price meat, meat products, fish and seafood for sale
- Suggest complementary and/or alternative meat or fish products to consumers
- Inspect the quality of meat, fish and seafood, expiry dates and ensure proper product rotation
- Ensure the maintenance of equipment, displays and work area
- Receive and store merchandise in accordance with the company's established standards
- Comply with government health and safety standards and occupational health and safety standards.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training in food stores is usually offered to meat cutters and fishmongers for retail sale.
- An apprenticeship program in meat cutting is available but voluntary.
- Trade certification for meat cutter is available, but voluntary, in Saskatchewan and British Columbia.

6521 Support occupations in accommodation, travel, tourism and amusement services

This minor group comprises support occupations in accommodation, travel and facilities set-up services; and operators and attendants in amusement, recreation and sport. They are employed by hotels, conference centres, retail establishments, passenger transport companies and throughout the public and private sectors; as well as by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities.

65210 Support occupations in accommodation, travel and facilities set-up services

Workers in support occupations in accommodation, travel and facilities set-up services escort guests to their rooms, carry travellers' luggage at airports, in railway stations and aboard ships, clean and maintain public areas and passengers' rooms aboard ships and trains, and set up rooms and associated furnishings, commercial displays, exhibits, equipment and booths in facilities and establishments. They are employed by hotels, conference centres, retail establishments, passenger transport companies and throughout the private and public sectors.

Illustrative example(s)

- baggage porter
- banquet porter
- bellhop
- cruise line passenger attendant
- facilities porter
- hotel doorkeeper
- hotel guest services attendant
- luggage attendant
- room flipper
- showcase installer
- train service attendant

Exclusion(s)

- Air transport ramp attendants (74202)
- Hotel front desk clerks (64314)
- Material handlers (75101)
- Motion pictures, broadcasting, photography and performing arts assistants and operators (53111)

Main duties

This group performs some or all of the following duties:

Guest service attendants and baggage porters

- Carry luggage for hotel guests, escort incoming guests to their rooms

- Check rooms to ensure they are in order
- Offer information regarding features of rooms, services of hotel and points of interest
- Assist guests with special needs
- Attend to group arrivals and departures
- Receive and deliver items and messages for guests
- Handle guest complaints and requests and maintain luggage storage areas
- Convey travellers' luggage at railway stations and airports by hand or hand truck and arrange for ground transportation.

Ship and train service attendants

- Set and clear tables, serve food and beverages, clean sleeping cars and cabins, make beds, wash dishes and maintain washroom supplies
- Carry luggage for passengers aboard ships
- Ensure customer satisfaction and comfort.

Facilities workers

- Set-up, install, reconfigure, relocate and dismantle temporary partitions and furnishings of rooms
- Assemble, rotate and disassemble window displays, showcases and signage according to floor plans or instructions
- Assist with installation of audiovisual equipment and help in resolving problems during use
- May perform minor repairs on installations and routine maintenance of audiovisual equipment.

Employment requirements

- Some secondary school education may be required.

65211 Operators and attendants in amusement, recreation and sport

Operators and attendants in amusement, recreation and sport assist patrons, collect tickets and fees and supervise the use of recreational and sports equipment. They are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities.

Illustrative example(s)

- amusement attraction operator
- amusement park attendant
- amusement ride operator
- athletic equipment custodian
- billiard parlour attendant
- bingo hall attendant
- bowling alley attendant
- campground attendant
- campground supervisor
- game concession operator
- recreation attendant
- recreational facility attendant

- rink ice maker
- ski lift attendant
- sports attendant
- tennis court attendant

Inclusion(s)

- park receptionist

Exclusion(s)

- Casino workers (64321)
- Other service support occupations (65329)
- Other services supervisors (62029)
- Other support occupations in personal services (65229)
- Program leaders and instructors in recreation, sport and fitness (54100)

Main duties

This group performs some or all of the following duties:

Amusement attraction operators

- Drive trucks, vans and other vehicles to transport amusement rides, games and other attractions to amusement attraction sites
- Set up rides, fun houses, game concessions and other amusement attractions
- Perform routine maintenance and safety inspections of attraction equipment
- Operate rides and other attractions, oversee game activities and ensure safety of participants
- May sell tickets.

Attendants in amusement, recreation and sport

- Collect tickets and fees, and rent or sell sports and accessory equipment
- Schedule the use of recreational facilities such as golf courses, tennis courts, bowling alleys, fitness clubs, campgrounds and other similar facilities
- Operate recreational facility equipment such as ski lifts, ice rink equipment and snow making machines
- Assist patrons on and off ski lifts and amusement park rides, secure and release safety belts and bars and monitor equipment to detect wear and damage
- Clean and maintain recreational facilities and grounds.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is usually provided.

6522 Support occupations in personal services

This minor group comprises support occupations in personal services, including pet groomers and animal care workers and other support occupations in personal services not elsewhere classified. They are employed by animal hospitals and clinics, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, dog training schools and pet grooming establishments; or they may be self-employed.

65220 Pet groomers and animal care workers

Animal care workers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians and animal breeders. Pet groomers clip coats, bathe and otherwise groom pets. They are employed by animal hospitals and clinics, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, dog training schools, pet grooming establishments, or may be self-employed.

Illustrative example(s)

- animal care worker (except farm)
- dog groomer
- dog trainer
- kennel attendant
- laboratory animal attendant
- pet groomer
- pound attendant
- veterinary attendant
- zoo attendant

Exclusion(s)

- Animal health technologists and veterinary technicians (32104)
- Animal nutritionist (See 21110-Biologists and related scientists)
- Horseshoer (See 72999-Other technical trades and related occupations)
- Marine mammal trainer (See 21110-Biologists and related scientists)
- Sheep shearer (See 84120-Specialized livestock workers and farm machinery operators)

Main duties

This group performs some or all of the following duties:

- Prepare food and feed animals, fish or birds at scheduled intervals
- Clean and disinfect cages, pens and surrounding areas
- Shampoo, clip and groom animals
- Assist veterinarians and animal health technologists and technicians to inoculate and treat animals
- Assist animal breeders to handle and nurture animals
- Assist scientists and researchers in conducting laboratory tests with animals
- Monitor and document animal behaviour
- Train dogs to obey commands and perform specific duties in response to signals.

Employment requirements

- Completion of secondary school is usually required.
- Depending on the type of work performed, training courses in animal handling, grooming or dog training are usually required. Animal health or veterinary assistant college courses may be required for animal care workers.

Additional information

- Progression to animal health technology occupations is possible with additional training.

65229 Other support occupations in personal services

Workers in other support occupations in personal services provide psychic consulting, fortune-telling, astrological services and other personal services. They are employed by call centres and personal service establishments, or are self-employed.

Illustrative example(s)

- astrologer
- chat line agent
- dating service consultant
- fortune teller
- psychic consultant
- psychic reader

Exclusion(s)

- Image, social and other personal consultants (64201)
- Massage therapists (32201)

Main duties

This group performs some or all of the following duties:

Astrologers

- Chart and interpret stellar and planetary positions on a horoscope to predict future events and trends for a client or the general public.

Psychic consultants and related advisors

- Provide personal advice to clients based on various schools of thought.

Other service providers

- Offer a wide variety of personal services not elsewhere classified.

Employment requirements

- A period of training under the guidance of a practitioner is usually required.

653 Support occupations in cleaning and related services

This sub-major group comprises support occupations in cleaning and related services, and other service support occupations.

6531 Cleaners

This minor group comprises cleaners, including light duty cleaners; specialized cleaners; and janitors, caretakers and heavy-duty cleaners. They are employed by hotels, motels and resorts; shopping and recreational facilities; hospitals, health care facilities and educational and other institutions; building management companies, cleaning service companies, condominium corporations and private individuals; and industrial, religious and other establishments; or they may be self-employed.

65310 Light duty cleaners

Light duty cleaners clean lobbies, hallways, offices and rooms of hotels, motels, resorts, hospitals, schools, office buildings and private residences. They are employed by hotels, motels, resorts, recreational facilities, hospitals and other institutions, building management companies, cleaning service companies and private individuals. Housekeepers perform housekeeping duties in residential, and institutional settings.

Illustrative example(s)

- cleaner
- hospital cleaner
- hotel cleaner
- house cleaner
- housekeeper
- housekeeping aide
- housekeeping room attendant
- light duty cleaner
- office cleaner
- sweeper

Exclusion(s)

- Cleaning supervisors (62024)
- Janitors, caretakers and heavy-duty cleaners (65312)
- Specialized cleaners (65311)

Main duties

This group performs some or all of the following duties:

- Sweep, mop, wash, wax and polish floors
- Dust furniture and vacuum carpeting and area rugs, draperies and upholstered furniture
- Make beds, change sheets and distribute clean towels and toiletries
- Attend to guests' requests for extra supplies
- Stock linen closets and other supplies' areas
- Clean, disinfect and polish kitchen and bathroom fixtures and appliances
- Clean and disinfect public areas such as changing rooms, showers and elevators
- Disinfect operating rooms and other hospital areas
- Pick up debris and empty trash containers
- Wash windows, walls and ceilings
- Report and store lost and found items
- May provide basic information on facilities
- May handle complaints.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is usually provided.

Additional information

- Progression to supervisory cleaning positions is possible with additional training or experience.

65311 Specialized cleaners

Specialized cleaners clean and refurbish building exteriors, carpets, chimneys, industrial equipment, ventilation systems, windows and other surfaces, using specialized equipment and techniques. They are employed by specialized cleaning service companies or they may be self-employed.

Illustrative example(s)

- auto detailer
- building exterior cleaner
- carpet cleaner
- chimney cleaner
- freight car cleaner
- furnace cleaner
- laboratory equipment cleaner
- sandblaster
- septic tank cleaner
- upholstery cleaner
- vehicle cleaner
- ventilation system cleaner
- window cleaner

Exclusion(s)

- Cleaning supervisors (62024)
- Janitors, caretakers and heavy-duty cleaners (65312)
- Light duty cleaners (65310)

Main duties

This group performs some or all of the following duties:

Carpet and upholstery cleaners

- Operate cleaning machines to clean carpets, rugs and upholstered furniture on customers' premises or in carpet and upholstery cleaning establishments.

Chimney cleaners and sandblasters

- Clean soot and creosote from chimneys and fireplaces using hand tools and industrial vacuum cleaners
- Clean building exteriors, tanks, and industrial equipment using sandblasting, pressurized steam or hydroblasting equipment.

Furnace and ventilation system cleaners

- Clean ducts, vents and filters of furnaces in residences and commercial buildings using hand tools and industrial vacuum cleaners.

Vehicle cleaners

- Clean the interior and exterior of automobiles, buses, streetcars, railway cars and subway cars.

Window cleaners

- Wash and clean interior and exterior windows and other glass surfaces in low-rise and highrise buildings.

Employment requirements

- There are no specific education requirements for occupations in this unit group.
- On-the-job training is usually provided.
- Previous experience in a related position may be required for some occupations in this unit group.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

65312 Janitors, caretakers and heavy-duty cleaners

Janitors, caretakers and heavy-duty cleaners clean and maintain the interior and exterior of commercial, institutional and residential buildings and their surrounding grounds. They are employed by office and apartment building management companies, condominium corporations, educational institutions, health care facilities, recreational and shopping facilities, religious, industrial and other establishments.

Illustrative example(s)

- custodian
- heavy-duty cleaner
- industrial cleaner
- plant cleaner
- school janitor

Exclusion(s)

- Cleaning supervisors (62024)
- General building maintenance workers and building superintendents (73201)
- Light duty cleaners (65310)
- Specialized cleaners (65311)

Main duties

This group performs some or all of the following duties:

- Operate industrial vacuum cleaners to remove scraps, dirt, heavy debris and other refuse
- Wash windows, interior walls and ceilings
- Empty trash cans and other waste containers
- Sweep, mop, scrub and wax hallways, floors and stairs
- Clean snow and ice from walkways and parking areas
- Cut grass and tend grounds and plants
- Clean and disinfect washrooms and fixtures
- May move heavy furniture, equipment and supplies.

Employment requirements

- Completion of secondary school may be required.
- Previous cleaning experience may be required.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

6532 Service support and related occupations

This minor group comprises service support and related occupations, including dry cleaning, laundry and related occupations, and other service support occupations not elsewhere classified. They are employed in dry cleaning, laundry and fur cleaning establishments, in the laundries of hotels, hospitals and other institutions; and by a wide range of establishments.

65320 Dry cleaning, laundry and related occupations

Dry cleaning and laundry machine operators operate machines to dry-clean or launder garments and other articles. Dry cleaning and laundry inspectors and assemblers check finished garments and other articles to ensure that they meet required standards for dry-cleaning, laundering and pressing, and assemble and bag finished garments and other articles. This unit group also includes workers who iron, press or otherwise finish garments and household articles. They are employed in dry cleaning, laundry and fur cleaning establishments, and in the laundries of hotels, hospitals and other institutions.

Illustrative example(s)

- assembler - laundry and dry cleaning
- bagger - laundry and dry cleaning
- drapery cleaner
- dry cleaner
- dyer - laundry and dry cleaning
- finisher - laundry and dry cleaning
- fur cleaner - laundry and dry cleaning
- hand finisher - laundry and dry cleaning
- inspector - laundry and dry cleaning
- laundry machine operator
- laundry worker
- leather cleaner - laundry and dry cleaning
- presser - laundry and dry cleaning
- pressing machine tender - laundry and dry cleaning
- silk finisher - laundry and dry cleaning
- steam finisher - laundry and dry cleaning
- suede cleaner - laundry and dry cleaning

Exclusion(s)

- Alterations dressmaker AND alterations seamstress (See 64200-Tailors, dressmakers, furriers and milliners)
- Dry cleaning service manager (See 60040-Managers in customer and personal services)
- Dry cleaning supervisor (See 62029-Other services supervisors)

Main duties

This group performs some or all of the following duties:

Dry cleaning and laundry machine operators

- Operate dry cleaning machines to dry-clean dresses, suits, coats, sweaters and other garments, draperies, cushion covers and other articles
- Sort garments and operate washing machines and dryers to clean and dry clothing, sheets, blankets, towels and other articles
- Operate machines to clean and blow-dry fur garments
- Operate machines to dry-clean, dye, spray, re-oil, and re-buff suede and leather garments
- Mix and add detergents, dyes, bleaches, starches and other solutions and chemicals.

Dry cleaning and laundry inspectors and assemblers

- Check finished garments and other articles to ensure that they are properly dry-cleaned or laundered
- Record damaged or improperly dry-cleaned or laundered garments and other articles
- Use hand-held steam iron to touch up finished garments and other articles
- Assemble and bag finished garments and other articles
- Match invoices with tags on garments or other articles.

Ironing, pressing and finishing workers

- Operate finishing equipment such as steam pressers, and use hand irons to finish pants, jackets, shirts, skirts and other dry cleaned and laundered articles
- Hand iron laundered fine linens or dry-cleaned silk garments
- Operate fur ironing and glazing equipment to finish fur garments and other fur articles
- Fold and bag dry cleaned and laundered articles
- May operate laundering equipment.

Workers in this group may specialize in finishing suede, leather, fur and delicate articles.

Employment requirements

- Some secondary school education is required.
- Four to eight weeks of on-the-job training are usually provided.
- Dry cleaning and laundry machine operators may require experience as inspectors or assemblers.
- Suede, leather and fur cleaners may require experience as dry cleaning or laundry machine operators.

Additional information

- Progression to supervisory dry cleaning and laundry occupations is possible with additional training and experience.

65329 Other service support occupations

Workers in other service support occupations perform a range of services. They are employed in a wide variety of establishments: places of employment are usually indicated in the job title.

Illustrative example(s)

- beauty salon attendant
- car jockey
- cloakroom attendant
- door attendant (except hotel)
- funeral home attendant
- fur storage attendant
- hotel valet
- laundromat attendant
- parking lot attendant
- shoe shiner
- tanning salon attendant
- theatre usher
- ticket taker
- toll booth attendant

Exclusion(s)

- Operators and attendants in amusement, recreation and sport (65211)
- Other services supervisors (62029)

Main duties

This group performs some or all of the following duties:

Beauty salon attendants

- Shampoo, condition and dry customers' hair and assist hair stylists as directed
- Keep work areas clean.

Door attendants

- Assist persons entering or leaving residential buildings, theatres and similar establishments
- May call taxis and assist with parcels.

Funeral home attendants

- Drive hearses
- Arrange lights and floral displays
- Escort mourners and act as pallbearers
- Clean funeral parlours and chapels.

Laundromat attendants

- Replenish vending machines
- Provide change
- Explain operation of machines to customers
- Clean the laundromat and arrange for the repair of broken machines
- May wash, dry and fold laundry for customers
- May operate dry cleaning machines for customers.

Parking lot attendants and car jockeys

- Collect parking fees and issue ticket stubs
- Direct customers to parking spaces and park cars.

Ticket takers and ushers

- Collect admission tickets or passes from patrons at entertainment events and direct patrons to their seats.

Other workers in this group

- Perform services specific to the establishments in which their occupations are found.

Employment requirements

- There are no specific education requirements for occupations in this unit group.
- A valid driver's licence is required for some occupations in this unit group, such as funeral attendant and car jockey.
- Drone pilots with a maximum takeoff drone weight of 25 kilograms must pass an online exam (small basic exam) and for takeoff weight of above 25 kilograms, they must pass an online exam (small advanced exam) and an in-person flight review with Transport Canada to get their Drone pilot certificate-advanced operations.

7 Trades, transport and equipment operators and related occupations

This broad category comprises middle management occupations in trades, transportation and equipment, as well as occupations such as technical trades and transportation officers and controllers; general trades; mail and message distribution, other transport equipment operators and related maintenance workers; and helpers and labourers and other transport drivers, operators and labourers.

70 Middle management occupations in trades and transportation

This major group comprises middle management occupations in trades and transportation. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

700 Middle management occupations in trades and transportation

This sub-major group comprises middle management occupations in trades and transportation, including managers in construction and facility operation and maintenance, and managers in transportation and postal and courier services.

7001 Managers in construction and facility operation and maintenance

This minor group comprises managers in construction and facility operation and maintenance, including construction managers; home building and renovation managers; and facility operation and maintenance managers. They are employed by residential, commercial, and industrial construction companies; construction departments of companies outside the construction industry; residential renovation companies; commercial, industrial, transportation, institutional, recreational, sports and other facilities; and maintenance and mechanical engineering departments of manufacturing and other industrial establishments; or they may own and operate their own businesses.

70010 Construction managers

Construction managers plan, organize, direct, control and evaluate the activities of a construction company or a construction department within a company, under the direction of a general manager or other senior manager. They are employed by residential, commercial and industrial construction companies and by construction departments of companies outside the construction industry.

Illustrative example(s)

- commercial construction manager
- construction manager
- construction project manager
- construction superintendent
- general contractor
- housing construction manager
- industrial construction manager
- pipeline construction manager
- residential construction manager

Exclusion(s)

- Home building and renovation managers (70011)
- Senior managers - construction, transportation, production and utilities (00015)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate construction projects from start to finish according to schedule, specifications and budget
- Prepare and submit construction project budget estimates
- Plan and prepare construction schedules and milestones and monitor progress against established schedules
- Prepare contracts and negotiate revisions, changes and additions to contractual agreements with architects, consultants, clients, suppliers and subcontractors
- Develop and implement quality control programs
- Represent company on matters such as business services and union contracts negotiation
- Prepare progress reports and issue progress schedules to clients
- Direct the purchase of building materials and land acquisitions
- Hire and supervise the activities of subcontractors and subordinate staff.

Employment requirements

- A university degree in civil engineering or a college diploma in construction technology is usually required.
- A master's degree in project management may be required.
- Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required.
- Extensive experience in the construction industry may substitute for post-secondary education requirements.
- Professional engineering status or construction trade certification may be required by some employers.

Additional information

- Progression to senior management positions is possible with experience.

70011 Home building and renovation managers

Home building managers own, operate and manage companies engaged in the construction of new residential homes. Home renovation managers own, operate and manage companies engaged in the renovation of existing residential homes.

Illustrative example(s)

- home builder
- home renovation contractor
- home renovator
- renovation contractor
- residential homes contractor

Exclusion(s)

- Construction managers (70010)
- Senior managers - construction, transportation, production and utilities (00015)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a residential home building or renovating company
- Prepare bids for home construction or renovation projects
- Consult with customers, architects and engineers regarding plans and specifications
- Select, hire and supervise trade subcontractors to do specialized work, such as plumbing, heating and electrical work
- Plan and prepare work schedules and coordinate the activities of subcontractors
- Inspect work performed by subcontractors to ensure quality and conformity with plans and specifications
- Prepare and maintain a directory of suppliers and trade subcontractors
- Develop and implement marketing and advertising strategies to promote company's products and services
- May perform carpentry or other trade work during home construction or renovation activities.

Employment requirements

- Extensive experience in the home construction industry, including experience as a general supervisor, is usually required for self-employment as a home builder or a home renovator.
- Leading in Energy and Environmental Design (LEED) certification may be an asset in bidding on and obtaining building and renovation projects.

Additional information

- Progression to senior management positions is possible with extensive experience and training in management.

70012 Facility operation and maintenance managers

Facility operation managers plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities and the included real estate. Facility operation managers are employed by a wide range of establishments, such as airports, harbours, canals, shopping centres, convention centres, warehouses and recreational facilities. Maintenance managers plan, organize, direct, control and evaluate the maintenance department within commercial, industrial, institutional, recreational and other facilities. Maintenance managers are employed by a wide range of establishments, such as office buildings, shopping centres, airports, harbours, warehouses, grain terminals, universities, schools and sports facilities, and by the maintenance and mechanical engineering departments of manufacturing and other industrial establishments.

Illustrative example(s)

- airport manager
- arena manager
- campus maintenance manager
- facilities maintenance head
- facility operations manager
- grain elevator district manager
- harbour master
- maintenance and service superintendent
- maintenance manager

- maintenance support services chief
- mechanical services superintendent
- plant maintenance superintendent
- recreation facility manager
- shopping centre manager
- warehouse manager

Exclusion(s)

- Administrative services managers (1001)
- Building superintendent (See 73201-General building maintenance workers and building superintendents)
- Contractors and supervisors, mechanic trades (72020)
- Director of operations - transportation (See 70020-Managers in transportation)
- Freight traffic manager (See 70020-Managers in transportation)
- Production operations manager (See 90010-Manufacturing managers)
- Property administrators (13101)

Main duties

This group performs some or all of the following duties:

Facility operation managers

- Plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities and the included real estate
- Oversee the leasing of space in the facility and the included real estate and the development of marketing strategies
- Plan, organize and direct administrative services such as signage, cleaning, maintenance, parking, safety inspections, security and snow removal
- Plan, organize, direct, control and evaluate construction projects to modify commercial, transportation and recreational facilities and real estate
- Oversee the installation, maintenance and repair of real estate infrastructures including machinery, equipment and electrical and mechanical systems
- Plan and manage the facility's operations budget
- Prepare or oversee the preparation of reports and statistics related to areas of responsibility
- Hire and oversee training and supervision of staff.

Maintenance managers

- Direct the maintenance and repair of an establishment's machinery, equipment and electrical and mechanical systems
- Develop and implement schedules and procedures for safety inspections and preventive maintenance programs
- Coordinate cleaning, snow removal and landscaping operations
- Administer contracts for the provision of supplies and services
- Plan and manage a facility's maintenance budget
- Hire and oversee training and supervision of staff.

Employment requirements

- Facility operation managers require completion of a college or university program in business administration or in a discipline related to facility operation and maintenance
or
An equivalent combination of technical training and experience in administration or maintenance.
- Maintenance managers require completion of a college or university program in electrical or mechanical engineering or in another discipline related to building maintenance
or
An equivalent combination of technical training and experience in building maintenance.
- Several years of supervisory experience in facility operations or maintenance are usually required.

7002 Managers in transportation and postal and courier services

This minor group comprises managers in transportation and postal and courier services. They are employed by transportation, freight forwarding and shipping companies and by transportation departments of companies in the retail and manufacturing sectors and utilities; and by courier companies and Canada Post Corporation.

70020 Managers in transportation

Managers in transportation operations plan, organize, direct, control and evaluate the operations of transportation companies such as railways, airlines, bus lines, municipal transit systems, shipping lines and trucking companies, under the direction of a general manager or another senior manager. Managers in transportation freight traffic plan, organize, direct, control and evaluate companies or departments responsible for the transportation and movement of goods, under the direction of a general manager or another senior manager. They are employed by transportation, freight forwarding and shipping companies and by transportation departments of companies in retail and manufacturing sectors and utilities.

Illustrative example(s)

- bus company manager
- distribution manager - logistics
- flight operations manager
- freight forwarding manager
- marine superintendent
- rail operations superintendent
- railway freight manager
- traffic manager - transportation
- transport department manager
- transportation manager
- urban transit system manager

Inclusion(s)

- cruise ship line manager

Exclusion(s)

- Airport manager (See 70012-Facility operation and maintenance managers)
- Airport terminal manager (See 70012-Facility operation and maintenance managers)
- Harbour master (See 70012-Facility operation and maintenance managers)
- Senior managers - construction, transportation, production and utilities (00015)

Main duties

This group performs some or all of the following duties:

Managers in transportation operations

- Plan, organize, direct, control and evaluate the operations of a transportation company
- Set operations policies and standards, including determination of safety procedures for the handling of dangerous goods, and ensure compliance with transport regulations
- Oversee the dispatch, maintenance and service of vehicles, vessels or aircraft
- Control the company or departmental budget, including acquisitions
- Monitor company's or department's performance, prepare reports for senior management, and plan for changes to schedules and policies
- Recruit personnel and oversee their training.

Managers in transportation freight traffic

- Plan, organize, direct, control and evaluate the operation of or department responsible for coordinating, arranging and monitoring the transportation and movement of goods
- Arrange shipping documentation and oversee the schedule, dispatch and tracking of goods
- Set transportation service rates and performance indicators
- Develop plans and procedures for the transportation and storage of goods
- Negotiate with carriers, warehouse operators and insurance company representatives for services and preferential rates
- Control the departmental budget
- Recruit personnel and oversee their training.

*Employment requirements**Managers in transportation operations*

- A bachelor's degree in business administration or engineering is usually required.
- Several years of experience in transportation operations are usually required, including supervisory experience.
- Extensive experience as a supervisor and operator in a particular transport mode, such as a pilot, train engineer, vessel master or truck driver, may substitute for formal education.
- Certification as an operator of a particular mode of transportation, such as commercial pilot, vessel master or truck driver, is usually required.

Managers in transportation freight traffic

- Completion of secondary school is required.
- A college diploma or university degree in business or transportation administration may be required.
- Several years of clerical, operational or administrative experience related to freight traffic are required

Additional information

- There is little or no mobility between managers in transportation operations and managers in transportation freight traffic.
- There is little or no mobility between transportation managers of land, sea and air transportation operations.

70021 Postal and courier services managers

Postal and courier services managers plan, organize, direct, control and evaluate the activities and operations in postal facilities and in establishments that provide courier services. They are employed by Canada Post Corporation and by courier companies.

Illustrative example(s)

- collection and delivery operations manager - postal service
- mail operations manager
- mail processing plant manager
- messenger service manager
- parcel processing plant manager
- post office manager
- postal station superintendent
- production control manager - postal service

Exclusion(s)

- Postmaster/mistress (See 72025-Supervisors, mail and message distribution occupations)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of postal facilities and courier service companies, or of operational divisions within Canada Post and courier service companies
- Coordinate the duties of supervisors and other staff
- Manage the accurate and expedient movement of mail and parcels through postal and parcel sorting facilities
- Review effectiveness of assigned operations and implement changes to postal and courier operations
- Prepare and submit budget estimates and administer the expenditures of postal and courier facilities
- Interview, hire and provide training for staff.

Employment requirements

- A university degree or college diploma is usually required.
- Several years of supervisory or operational experience within a postal or courier facility are usually required.

72 Technical trades and transportation officers and controllers

This major group comprises technical trades and transportation officers and controllers. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety

responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

720 Technical trades contractors and supervisors

This sub-major group comprises technical trades contractors and supervisors, including contractors and supervisors, technical industrial, electrical and construction trades and related workers, as well as contractors and supervisors, technical maintenance trades and heavy equipment and transport operators. Contractors own and operate their own businesses and supervisors supervise and coordinate the activities of workers.

7201 Contractors and supervisors, technical industrial, electrical and construction trades and related workers

This minor group comprises contractors and supervisors, technical industrial, electrical and construction trades and related workers, including contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations; contractors and supervisors, electrical trades and telecommunications occupations; contractors and supervisors, pipefitting trades; contractors and supervisors, carpentry trades; and contractors and supervisors, other construction trades, installers, repairers and servicers. Contractors own and operate their own businesses and supervisors supervise and coordinate the activities of workers. They are employed by construction companies; electrical, mechanical, carpentry, bricklaying, masonry, cement and concrete, plastering, drywalling and lathing, roofing, insulation, painting, floor covering, construction glass installation, and plumbing and pipefitting trade contractors; maintenance departments of industrial, commercial and manufacturing establishments; machine shops; structural, platework and related metal products fabrication, manufacturing and erecting companies; electric power generation, transmission and distribution companies and public utility commissions; telephone, cable and satellite television and other telecommunications transmission companies; gas distribution companies; manufacturers of custom furniture and fixtures and of precast concrete products; service and repair shops; glass fabrication shops; and pest control companies; or they may be self-employed.

72010 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations

Contractors and supervisors in machining, metal forming, shaping and erecting trades and related occupations supervise and coordinate the activities of workers classified in the following unit groups: Machinists and machining and tooling inspectors (72100), Tool and die makers (72101), Sheet metal workers (72102), Boilermakers (72103), Structural metal and platework fabricators and fitters (72104), Ironworkers (72105), Welders and related machine operators (72106) and Machining tool operators (94106). They are employed by structural, platework and related metal products fabrication, manufacturing and erecting companies and machine shops. Contractors may be self-employed.

Illustrative example(s)

- automotive machine shop foreman/woman
- blacksmith foreman/woman
- boilermaker foreman/woman
- boilermaker supervisor
- ironwork contractor
- ironworkers foreman/woman
- machine shop supervisor
- machinists foreman/woman
- machinists supervisor
- maintenance machine shop foreman/woman
- metal mould and metal patternmakers supervisor

- sheet metal workers supervisor
- structural metal fitter supervisor
- tool and die inspectors supervisor
- tool and die makers foreman/woman
- welder supervisor

Exclusion(s)

- Computer numerically controlled coordinate measuring machine (CNC/CMM) programmer (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Supervisors, motor vehicle assembling (92020)
- Supervisors, other mechanical and metal products manufacturing (92023)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who shape, form and join metal parts or products to specified dimensions, machine metal into parts, products, tools and dies or moulds with precise measurements and erect light and heavy metal products and structures
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare production and other reports
- Set up machines and equipment and write programs for computer numerically controlled (CNC) machine tools
- May manage the operations of their own companies
- May also supervise, coordinate and schedule the activities of related apprentices, machine operators, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified machinist or tool and die maker are required.
- Journeyman/woman trade certification in machining, tool and die making or in another related metalworking trade is required.

72011 Contractors and supervisors, electrical trades and telecommunications occupations

Contractors and supervisors in electrical trades and telecommunications occupations supervise and coordinate the activities of workers classified in the following unit groups: Electricians (72200), Industrial electricians (72201), Power system electricians (72202), Electrical power line and cable workers (72203), Telecommunications line and

cable installers and repairers (72204) and Telecommunications equipment installation and cable television service technicians (72205). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions. Contractors may be self-employed.

Illustrative example(s)

- cable maintenance and repair supervisor
- cablevision technicians foreman/woman
- construction electricians foreman/woman
- electrical contractor
- industrial electrical systems foreman/woman
- plant electrician supervisor
- power line and cable workers foreman/woman
- power systems electricians foreman/woman
- residential electrician supervisor
- telecommunication installation and repair worker foreman/woman

Exclusion(s)

- Electrical mechanics foreman/woman (See 72020-Contractors and supervisors, mechanic trades)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who install, repair and maintain electrical wiring, fixtures and control devices, power systems, telecommunication systems and cablevision systems
- Establish methods to meet work schedules and coordinate work activities with other departments or subcontractors
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare work progress reports
- May manage the operations of their own companies
- May also supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is some mobility between jobs within a specific trade; however, there is little or no intertrade mobility.

72012 Contractors and supervisors, pipefitting trades

Contractors and supervisors in pipefitting trades supervise and coordinate the activities of workers classified in the following unit groups: Plumbers (72300), Steamfitters, pipefitters and sprinkler system installers (72301) and Gas fitters (72302). They are employed by construction companies, mechanical, plumbing and pipefitting trade contractors and maintenance departments of industrial, commercial and manufacturing establishments. Contractors may be self-employed.

Illustrative example(s)

- gas fitters foreman/woman
- gas fitters supervisor
- pipefitters foreman/woman
- pipefitting contractor
- plumber foreman/woman
- plumbers supervisor
- plumbing contractor
- sprinkler system installer foreman/woman
- steamfitter foreman/woman
- steamfitters supervisor

Exclusion(s)

- Contractors and supervisors, other construction trades, installers, repairers and servicers (72014)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who install, repair and maintain piping systems used for the transmission of steam, heat, water, oil and other liquids and gases in residential, commercial, industrial and other installations
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of their own companies
- May supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is little or no intertrade mobility among the supervisors in this unit group.

72013 Contractors and supervisors, carpentry trades

Contractors and supervisors in carpentry trades supervise and coordinate the activities of workers classified in the following unit groups: Carpenters (72310) and Cabinetmakers (72311). They are employed by construction companies, carpentry contractors, maintenance departments of industrial establishments, and custom furniture and fixture manufacturing or repair companies. Contractors may be self-employed.

Illustrative example(s)

- cabinetmaking contractor
- carpenter supervisor
- carpentry contractor
- finish carpenters foreman/woman
- form builders foreman/woman
- framers foreman/woman
- maintenance carpenters foreman/woman

Inclusion(s)

- general foreman/woman - residential construction
- residential construction supervisor

Exclusion(s)

- Construction managers (70010)
- Home building and renovation managers (70011)
- Supervisors, furniture and fixtures manufacturing (92022)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of carpenters who construct, renovate and maintain structures of wood and other building materials and build and install interior finishing in residential, commercial and industrial buildings; and of cabinetmakers who construct and repair custom wooden cabinets, furniture, fixtures and related products
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of their own companies
- May also supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified carpenter or cabinetmaker are required.
- Journeyman/woman trade certification as a carpenter or cabinetmaker is usually required.

Additional information

- There is some mobility among jobs within a specific trade; however, there is little or no intertrade mobility.

72014 Contractors and supervisors, other construction trades, installers, repairers and servicers

Contractors and supervisors, other construction trades, installers, repairers and servicers supervise and coordinate the activities of various tradespersons, installers, repairers and servicers classified in the following minor groups: Bricklayers and Insulators (7232), Concrete finishers, tilesetters and plasterers (7310), Roofers, Glaziers, Painters, decorators and floor covering installers (7311) and Building maintenance installers, servicers and repairers (7320). They are employed by a wide range of establishments; places of employment are indicated in the unit group descriptions. Contractors may be self-employed. This unit group also includes prefabricated product installation and service contractors and proprietors of some repair and service establishments.

Illustrative example(s)

- bicycle repair shop supervisor
- bricklaying contractor
- cement finishing contractor
- glaziers foreman/woman
- insulators foreman/woman
- painters and decorators supervisor
- painting contractor
- pest control supervisor
- plasterer foreman/woman
- roofing contractor
- tilesetters supervisor

Exclusion(s)

- Contractors and supervisors, carpentry trades (72013)
- Contractors and supervisors, pipefitting trades (72012)
- Electrical contractor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Electricians supervisor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Ironwork contractor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Ironwork supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of construction workers engaged in bricklaying, roofing, cement finishing, tilesetting, plastering, drywall installation, glazing, insulating and painting, and workers who install and service prefabricated products in residential and commercial properties, as well as workers who repair a wide variety of products, such as musical instruments, sports equipment, vending machines, bicycles and cameras
- Establish methods to meet work schedules and coordinate work activities with other subcontractors
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare work progress reports
- May manage the operations of own company
- May also supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience in the trade or in the work area supervised are usually required.
- Journeyman/woman trade certification may be required for some occupations in this unit group.

Additional information

- There is little or no mobility among supervisors in this unit group.

7202 Contractors and supervisors, technical maintenance trades and heavy equipment and transport operators

This minor group comprises contractors and supervisors, technical maintenance trades and heavy equipment and transport operators, including contractors and supervisors, mechanic trades; contractors and supervisors, heavy equipment operator crews; supervisors, printing and related occupations; supervisors, railway transport operations; supervisors, motor transport and other ground transit operators; and supervisors, mail and message distribution occupations. Contractors own and operate their own businesses and supervisors supervise and coordinate the activities of workers. They are employed by manufacturing, utilities and other industrial establishments; heavy equipment dealers, contractors and servicing companies; construction, pipeline, logging, water drilling, cargo-handling companies; mining, quarrying and drilling and blasting companies; refrigeration, heating and air conditioning contractors and maintenance companies; elevator construction and maintenance companies; retail and warehouse establishments; marine, railway, motor transport and ground transit companies and urban transit systems; airlines and aircraft maintenance establishments; motor vehicle, and truck and trailer dealerships, maintenance establishments, body repair shops and appraisal centres; motorcycle, all-terrain vehicle, appliance, and other electrical equipment repair and service shops, dealerships and maintenance departments of related manufacturing and retail companies; commercial printing companies and establishments with in-house printing departments; Canada Post Corporation and courier companies; all levels of government; or they may be self-employed.

72020 Contractors and supervisors, mechanic trades

Contractors and supervisors in mechanic trades supervise and coordinate the activities of workers classified in unit groups within the following minor groups: Machinery and transportation equipment mechanics (except motor vehicle) (7240), Automotive service technicians (7241) and Small motor, engine and equipment mechanics and related repairers (including electrical components) (7242). They are employed in a wide range of establishments; places of employment are indicated in the unit group descriptions of the above minor groups. Contractors may be self-employed.

Illustrative example(s)

- air conditioning and refrigeration mechanic foreman/woman
- aircraft maintenance engineers (AME) supervisor
- aircraft mechanics and inspectors foreman/woman
- appliance repair shop supervisor
- electrical mechanics foreman/woman
- heating systems contractor
- heating systems mechanics foreman/woman
- heavy machinery assembly foreman/woman
- industrial mechanics supervisor
- motor vehicle repair shop supervisor
- printing machine repairers foreman/woman
- railway car repairer foreman/woman
- railway equipment maintenance inspectors foreman/woman
- small-engine repair shop foreman/woman
- textile machine mechanics foreman/woman

Exclusion(s)

- Industrial electricians foreman/woman (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who repair and maintain aircraft, railway locomotives and cars, industrial machinery and equipment, construction and other heavy equipment, textile equipment, printing machines, heating equipment and furnaces, transformers and other electrical equipment, motor vehicles, air conditioning and refrigeration equipment, electric appliances and other equipment, such as motorcycles, outboard motors and snowmobiles
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hiring and promotions
- Ensure that standards for safe working conditions are observed
- Prepare production and other reports
- May manage the operations of their own companies

- May also supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a qualified tradesperson in a relevant trade are usually required.
- Journeyman/woman trade certification in a relevant trade is required.

Additional information

- There is little or no intertrade mobility among the supervisors in this unit group.

72021 Contractors and supervisors, heavy equipment operator crews

Contractors and supervisors of heavy equipment operator crews supervise and coordinate the activities of workers classified in the following unit groups: Crane operators (72500), Water well drillers (72501), Heavy equipment operators (73400), Drillers and blasters - surface mining, quarrying and construction (73402), Railway yard and track maintenance workers (74200), Public works maintenance equipment operators and related workers (74205), Longshore workers (75100), Material handlers (75101), and Public works and maintenance labourers (75212). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions. Contractors may be self-employed.

Illustrative example(s)

- demolition foreman/woman
- drilling and blasting foreman/woman - construction
- excavating contractor
- heavy equipment operators supervisor
- logging road construction foreman/woman
- oil field construction supervisor
- paving contractor
- pipeline construction supervisor
- railway gang foreman/woman
- railway section foreman/woman
- railway track maintenance foreman/woman
- road maintenance foreman/woman
- track foreman/woman - railway
- water well drilling supervisor

Exclusion(s)

- Heavy equipment mechanics supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Supervisors, logging and forestry (82010)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who operate cranes and construction, paving, drilling, railway maintenance and other similar heavy equipment
- Establish methods to meet work schedules and coordinate work activities with other project supervisors or managers
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May manage the operations of own company
- May also supervise, coordinate and schedule the activities of related apprentices, helpers and labourers
- Small businesses' contractors may execute tasks within their trade area of expertise, which is generally not the case for supervisors or contractors associated with a medium or large business.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience in the occupation supervised is required.
- Journeyman/woman trade certification in a relevant trade may be required.

Additional information

- There is some mobility between occupations classified in this unit group.

72022 Supervisors, printing and related occupations

Supervisors of workers in printing and related occupations supervise and coordinate the activities of workers who produce camera work and printing plates and cylinders, process film, print text and illustrations on paper, metal and other material, and bind and finish printed products. They are employed by companies that specialize in commercial printing or one of its components, such as binding or colour reproduction, in combined printing and publishing companies, such as newspapers and magazines, and in various establishments in both the public and private sectors that have in-house printing departments.

Illustrative example(s)

- bindery foreman/woman - printing
- bindery supervisor - printing
- composing room supervisor - printing
- film processing supervisor
- finishing supervisor - printing
- photographic and film processing foreman/woman
- platemaking supervisor - printing
- prepress supervisor - printing
- pressroom supervisor - printing

Exclusion(s)

- Desktop publishing operators supervisor (See 12010-Supervisors, general office and administrative support workers)
- Printing plant manager (See 90010-Manufacturing managers)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule activities of workers who produce camera work and printing plates and cylinders; process film; and print, bind and finish books, newspapers, business forms and other printed products
- Establish methods to meet work schedules and coordinate work activities with other departments
- Review and approve all job proofs or samples in order to ensure quality of work meets client specifications
- Requisition materials and supplies
- Resolve work problems, provide technical advice and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Prepare production and other reports
- May set up machines or equipment.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in graphic arts technology may be required.
- Several years of experience in the work area supervised is usually required.
- Provincial trade certification may be required for some occupations in this unit group.

Additional information

- Progression to management positions, such as department, production or plant manager, is possible with experience.

72023 Supervisors, railway transport operations

Supervisors of railway transport operations supervise and coordinate the activities of railway and yard locomotive engineers, railway yard workers and railway labourers. They are employed by railway transport companies.

Illustrative example(s)

- freight train road foreman/woman
- railway transport operations supervisor
- stationmaster
- trainmaster
- yard foreman/woman - railway
- yardmaster - railway

Exclusion(s)

- Railway car repairer supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Railway track maintenance foreman/woman (See 72021-Contractors and supervisors, heavy equipment operator crews)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who operate trains, drive locomotives in railway yards and perform other duties related to railway operations
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hiring and promotions
- Prepare work reports.

Employment requirements

- Completion of secondary school is usually required.
- A Canadian Rail Operating Rules certificate is required.
- A certificate in accordance with the Railway Employee Qualification Standards Regulations is required.
- Several years of railway operations experience are required.

72024 Supervisors, motor transport and other ground transit operators

Supervisors of motor transport and other ground transit operators supervise and coordinate activities of truck drivers, bus drivers, delivery drivers, subway and other transit operators, chauffeurs and taxi and limousine drivers. This unit group also includes bus dispatchers who coordinate the activities of transit system bus drivers and subway traffic controllers who operate and monitor signal and track switch control panels. They are employed by motor transportation and ground transit companies and by urban transit systems.

Illustrative example(s)

- bus dispatcher
- bus inspector
- light rail transit (LRT) operators supervisor
- school bus drivers supervisor
- subway operators supervisor
- subway traffic controller
- transit mobile inspector
- truck drivers foreman/woman
- urban transit system foreman/woman

Exclusion(s)

- Supervisors, railway transport operations (72023)
- Taxi dispatcher (See 14404-Dispatchers)

- Train dispatcher (See 72604-Railway traffic controllers and marine traffic regulators)
- Truck dispatcher (See 14404-Dispatchers)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who operate trucks, buses, subway trains, light rail transit, street cars, taxis and other transport vehicles
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Dispatch bus drivers and monitor routes to ensure schedules are met and to resolve operating problems
- Monitor and operate signal and track switch control panel of subway systems
- Prepare work reports and budgets, and monitor expenditures.

Employment requirements

- Completion of secondary school is usually required.
- Several years of experience as a driver or operator of motor transport or ground transit equipment are usually required.

Additional information

- There is little mobility between occupations in the different transportation sectors of this unit group.

72025 Supervisors, mail and message distribution occupations

Supervisors in mail and message distribution supervise and coordinate the activities of workers in the following unit groups: Postal services representatives (64401), Letter carriers (74101), Mail and parcel sorters and related occupations (74100) and Couriers and messengers (74102). They are employed by Canada Post Corporation, courier companies, governments and large corporations.

Illustrative example(s)

- courier service supervisor
- letter carriers supervisor
- mail and postal clerks supervisor
- mail room supervisor
- messenger service supervisor
- postal station supervisor
- postmaster/mistress

Exclusion(s)

- Postal and courier services managers (70021)
- Shipping and receiving supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)

Main duties

This group performs some or all of the following duties:

- Coordinate, assign and review the work of postal clerks, couriers and letter carriers engaged in the collecting, sorting and delivering of mail, parcels and other material
- Establish work schedules and procedures and coordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is required.
- Several years of experience in the occupation supervised are usually required.
- Physical fitness may be required for some occupations in this unit group.

721 Technical industrial trades

This sub-major group comprises technical industrial trades, including machining, metal forming, shaping and erecting trades, including machinists and machining and tooling inspectors; tool and die makers; sheet metal workers; boilermakers; structural metal and platework fabricators and fitters; ironworkers; and welders and related machine operators.

7210 Machining, metal forming, shaping and erecting trades

This minor group comprises machining, metal forming, shaping and erecting trades, including machinists and machining and tooling inspectors; tool and die makers; sheet metal workers; boilermakers; structural metal and platework fabricators and fitters; ironworkers; and welders and related machine operators. They are employed by machinery, equipment, vehicle, aircraft, shipbuilding and other metal products manufacturers; construction and electric power generation companies; tool and die, mould making, welding and machine shops; structural steel, boiler, sheet metal and platework fabrication plants; and by construction ironwork, sheet metal work and welding contractors; or they may be self-employed.

72100 Machinists and machining and tooling inspectors

Machinists set up and operate a variety of machine tools to cut or grind metal, plastic or other materials to make or modify parts or products with precise dimensions. Machining and tooling inspectors inspect machined parts and tooling in order to maintain quality control standards. They are employed by machinery, equipment, motor vehicle, automotive parts, aircraft and other metal products manufacturing companies and by machine shops. Apprentices are also included in this unit group.

Illustrative example(s)

- automotive machinist
- aviation machinist
- general machinist
- machine shop inspector
- machined parts inspector
- machining inspector

- machinist
- machinist apprentice
- tooling inspector

Exclusion(s)

- Computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (72010)
- Machining tool operators (94106)
- Tool and die makers (72101)

Main duties

This group performs some or all of the following duties:

Machinists

- Read and interpret engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed, and plan best sequence of operations
- Compute dimensions and tolerances and measure and lay out work pieces
- Set up, operate and maintain a variety of machine tools including computer numerically controlled (CNC) tools to perform precision, non-repetitive machining operations such as sawing, turning, milling, boring, planing, drilling, precision grinding and other operations
- Fit and assemble machined metal parts and subassemblies using hand and power tools
- Verify dimensions of products for accuracy and conformance to specifications using precision measuring instruments
- May set up and program machine tools for use by machining tool operators.

Machining and tooling inspectors

- Verify dimensions of machined parts or tooling using micrometers, verniers, callipers, height gauges, optical comparators, coordinate measuring machines (CMM) or other specialized measuring instruments
- Maintain, repair and calibrate precision measuring instruments such as dial indicators, fixed gauges, height gauges and other measuring devices
- Report deviations from specifications and tolerances to supervisor
- Complete and maintain inspection reports.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program or a combination of over four years of work experience in the trade and some college and industry courses in machining may be required for trade certification.
- Trade certification for machinists is available, but voluntary, in all provinces and territories.
- Trade certification for tool and gauge inspectors is available, but voluntary, in Ontario.
- Trade certification for machinists (CNC) is available, but voluntary, in New Brunswick, Quebec and Manitoba.

- Several years of experience as a machinist, tool and die maker or machining tool operator may be required for machining and tooling inspectors.
- Red Seal endorsement is also available to qualified machinists upon successful completion of the interprovincial Red Seal examination.

Additional information

- Familiarity with exotic and composite materials may be required for machinists in aviation and other advanced manufacturing sectors.
- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72101 Tool and die makers

Tool and die makers make, repair and modify custom-made, prototype or special tools, dies, jigs, fixtures and gauges using various metals, alloys and plastics which require precise dimensions. They are employed primarily in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops. This unit group also includes metal patternmakers and metal mould makers. Apprentices are also included in this unit group.

Illustrative example(s)

- die finisher
- die maker
- jig maker
- metal mould maker
- metal patternmaker
- metal patternmaker apprentice
- mould maker - plastics processing
- mould maker apprentice
- tool and die maker
- tool and die maker apprentice
- toolmaker

Exclusion(s)

- Foundry workers (94101)
- Machining tool operators (94106)
- Machinists and machining and tooling inspectors (72100)
- Metal mould and metal patternmakers supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Tool and die makers supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

Main duties

This group performs some or all of the following duties:

Tool and die makers

- Read and interpret engineering drawings and specifications of tools, dies, prototypes or models

- Prepare templates and sketches, and determine work processes
- Compute dimensions and tolerances and set up machine tools
- Position, secure, measure and work metal stock or castings to lay out for machining
- Set up, operate and maintain a variety of conventional and computer numerically controlled (CNC) machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape workpiece to prescribed dimensions and finish
- Verify machined parts for conformance to specifications using precision measuring instruments such as verniers, callipers, micrometers, coordinate measuring machines (CMM) and electronic measuring devices
- Fit and assemble or disassemble parts using hand tools
- Test completed tools, dies, jigs or fixtures for proper operation
- May program CNC machine tools.

Metal mould makers and patternmakers

- Machine, fit and assemble castings and other parts to make precision models of required shape such as metal patterns, core boxes and match plates
- Machine, fit and assemble parts to make metal moulds and cores for plastic injection moulding, or other production processes
- Lay out, shape and assemble patterns of metal, wood, plastic and other materials from blueprints, models or templates
- May program CNC machine tools.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- or five-year tool and die making apprenticeship program
or
A combination of over five years of work experience in the trade and some high school, college or industry courses in tool and die making is usually required to be eligible for tool and die trade certification.
- Tool and die maker trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba and British Columbia.
- Red Seal endorsement is also available to qualified tool and die makers upon successful completion of the interprovincial Red Seal examination.
- Mould makers usually require completion of a four-year apprenticeship or college program in mould making.
- Trade certification for mould makers is available, but voluntary, in Quebec and Ontario.
- Patternmakers usually require completion of an apprenticeship or college program in patternmaking.
- Patternmaking trade certification is available, but voluntary, in Ontario.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72102 Sheet metal workers

Sheet metal workers fabricate, assemble, install and repair sheet metal products. They are employed by sheet metal fabrication shops, sheet metal products manufacturing companies, sheet metal work contractors and various industrial sectors. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice sheet metal worker
- sheet metal fabricator
- sheet metal mechanic
- sheet metal worker
- tinsmith

Inclusion(s)

- sheet metal roofer

Exclusion(s)

- Aircraft sheet metal technician (See 72404-Aircraft mechanics and aircraft inspectors)
- Boilermakers (72103)
- Ironworkers (72105)
- Metalworking and forging machine operators (94105)
- Sheet metal workers supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Structural metal and platework fabricators and fitters (72104)

Main duties

This group performs some or all of the following duties:

- Read engineering and architectural drawings, sketches and work specifications to be performed, and lay out, measure and mark sheet metal according to drawings or templates
- Develop patterns for sheet metal using computer-assisted design and drafting (CAD) software package
- Operate light metalworking machines such as shears, brakes, punches, and drill presses, including computer numerical control (CNC) equipment to cut, bend, punch, drill, shape or straighten sheet metal
- Operate computerized laser or plasma cutting equipment to cut sheet metal
- Install and use rigging and hoisting equipment
- Fit and join sheet metal parts using riveting, welding, soldering and similar equipment to fabricate products such as ventilation shafts, exhaust hoods, eavestroughs, partition frames, air and heat ducts, material handling systems, roof decking and sheet metal buildings
- Install sheet metal products according to specifications and building codes
- Grind and buff seams, joints and rough surfaces
- Inspect product quality and installation to ensure conformance to specifications.

Sheet metal workers may specialize in on-site installation or shop manufacture of sheet metal products, or servicing and maintenance of installed equipment and systems.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three to five year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in sheet metal working is usually required to be eligible for trade certification.

- Trade certification for sheet metal workers is compulsory in New Brunswick, Quebec, Ontario, Saskatchewan and Alberta, and available, but voluntary, in all other provinces and the territories.
- Trade certification for precision sheet metal set-up operator is available, but voluntary in Quebec.
- Red Seal endorsement is also available to qualified sheet metal workers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72103 Boilermakers

Boilermakers fabricate, assemble, erect, test, maintain and repair boilers, vessels, tanks, towers, heat exchangers and other heavy-metal structures. They are employed in boiler fabrication, manufacturing, shipbuilding, construction, electric power generation and similar industrial establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- boiler fitter
- boiler installer
- boilermaker
- boilermaker apprentice
- construction boilermaker
- industrial boilermaker
- marine boilermaker
- pressure vessel fabricator

Exclusion(s)

- Ironworkers (72105)
- Structural metal and platework fabricators and fitters (72104)
- Welders and related machine operators (72106)

Main duties

This group performs some or all of the following duties:

- Read blueprints or specifications to plan sequence of operation
- Lay out plate, sheet steel or other heavy metal and mark bending and cutting lines on work piece using protractors, compasses and drawing instruments or templates
- Set up and operate heavy-metal working machines such as brakes, rolls, shears, flame cutters and drill presses to cut, shape and form metal into parts or sections
- Fit and weld metal parts or sections together to fabricate boilers, vessels, tanks, heat exchangers, piping and other heavy-metal products
- Erect and install boilers and other heavy-metal products according to specifications using hand and power tools
- Repair and perform maintenance work on boilers and other heavy-metal products
- Direct activities of hoist or crane operators and other workers during fabrication, assembly, installation or repair of structures

- Test finished structures using a variety of methods.

Boilermakers may specialize in rigging and hoisting, preparation and layout, or welding aspects of the trade.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program or
A combination of over four years of work experience in the trade and some high school, college or industry courses in boilermaking is usually required to be eligible for trade certification.
- Trade certification is compulsory in Nova Scotia, Quebec and Alberta and available, but voluntary, in all other provinces.
- Red Seal endorsement is also available, in all provinces, to qualified boilermakers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72104 Structural metal and platework fabricators and fitters

Structural metal and platework fabricators and fitters fabricate, assemble, fit and install steel or other metal components for buildings, bridges, tanks, towers, boilers, pressure vessels and other similar structures and products. They are employed in structural steel, boiler and platework fabrication plants and by heavy machinery manufacturing and shipbuilding companies. Apprentices are also included in this unit group.

Illustrative example(s)

- metal fabricator
- plater
- platework fitter
- shipfitter
- shipfitter apprentice
- steel fabricator
- structural steel fitter

Exclusion(s)

- Boilermakers (72103)
- Metalworking and forging machine operators (94105)
- Platework fabricator supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Structural metal fitter supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Structural steel erector (See 72105-Ironworkers)
- Welders and related machine operators (72106)

Main duties

This group performs some or all of the following duties:

- Study engineering drawings and blueprints, determine the materials required, and plan the sequence of tasks to cut metal most efficiently
- Construct patterns and templates as guides for layouts
- Lay out reference points and patterns on heavy metal according to component specifications
- Rig, hoist and move materials to storage areas or within worksite
- Assemble and fit metal sections and plates to form complete units or subunits using tack welding, bolting, riveting or other methods
- Set up and operate various heavy-duty metal-working machines such as brake presses, shears, cutting torches, grinders and drills, including computer numerical control (CNC) equipment, to bend, cut, form, punch, drill or otherwise form heavy-metal components
- Install fabricated components in final product.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some college or industry courses in structural steel and platework fabrication is usually required to be eligible for trade certification.
- Trade certification for metal fabricators (fitters) is available, but voluntary, in all provinces.
- Trade certification for marine technicians is available, but voluntary, in Nova Scotia and British Columbia.
- Trade certification for piledriver and bridgeworker is available in British Columbia.
- Trade certification for boiler and related equipment assemblers and structural metal fabricators (non-construction) is available, but voluntary, in Quebec.
- Red Seal endorsement is also available to qualified metal fabricators (fitters) upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Some structural metal and platework fabricators and fitters may also be certified as skilled welders.
- Progression to supervisory positions is possible with experience.

72105 Ironworkers

Ironworkers fabricate, erect, hoist, install, repair and service structural ironwork, precast concrete, concrete reinforcing materials, curtain walls, ornamental iron and other metals used in the construction of buildings, bridges, highways, dams and other structures and equipment. They are employed by construction ironwork contractors. Apprentices are also included in this unit group.

Illustrative example(s)

- ironworker
- ironworker - metal building systems erector
- ironworker apprentice
- ornamental ironworker

- reinforcing ironworker
- structural steel erector

Exclusion(s)

- Boilermakers (72103)
- Ironwork supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Metal fitters foreman/woman (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Structural metal and platework fabricators and fitters (72104)

Main duties

This group performs some or all of the following duties:

- Read blueprints and specifications to lay out work
- Unload and position steel units so each piece can be hoisted as needed
- Erect and install scaffolding, hoisting equipment and rigging
- Signal crane operator to position steel units according to blueprints
- Align and weld or bolt steel units in place
- Erect structural and architectural precast concrete components for buildings, bridges, towers and other structures
- Assemble and erect prefabricated metal structures
- Position and secure steel bars or metal mesh in concrete forms to reinforce concrete structures
- Install ornamental and other structural metalwork such as curtain walls, metal stairways, railings and power doors
- Examine structures and equipment for deterioration, defects or non-compliance with specifications
- May dismantle structures and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year apprenticeship program
or
Over three years of work experience in the trade and some high school, college or industry courses in ironworking are usually required to be eligible for trade certification.
- Trade certification for ironworker (generalist) is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba and British Columbia.
- Trade certification for ironworker (reinforcing) is compulsory in Quebec and Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan and British Columbia.
- Trade certification for ironworker (structural/ornamental) is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan and British Columbia.
- Trade certification for ironworker (metal building systems erector) is compulsory in Alberta.
- Red Seal endorsement is also available to qualified ironworkers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72106 Welders and related machine operators

Welders operate welding equipment to weld ferrous and non-ferrous metals. This unit group also includes machine operators who operate previously set up production welding, brazing and soldering equipment. They are employed by companies that manufacture structural steel and platework, boilers, heavy machinery, aircraft and ships and other metal products, and by welding contractors and welding shops, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- aviation welding technician
- brazing machine operator
- brazing machine setter
- electric arc welder
- journeyman/woman welder
- laser welding operator
- pressure vessel welder
- production welder
- soldering machine operator
- spot welder
- submerged arc welder
- welder
- welder apprentice
- welder-fitter

Exclusion(s)

- Wave soldering machine operator (See 94201-Electronics assemblers, fabricators, inspectors and testers)
- Weld tester (See 22230-Non-destructive testers and inspectors)
- Welder supervisor (See 72010-Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Welding technologist (See 22101-Geological and mineral technologists and technicians)

Main duties

This group performs some or all of the following duties:

Welders

- Read and interpret blueprints or welding process specifications
- Operate manual or semi-automatic welding equipment to fuse metal segments using processes such as gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), plasma arc welding (PAW), shielded metal arc welding (SMAW), oxy-acetylene welding (OAW), resistance welding and submerged arc welding (SAW)
- Operate manual or semi-automatic flame-cutting equipment

- Operate brazing and soldering equipment
- Operate metal shaping machines such as brakes, shears and other metal straightening and bending machines
- Repair worn parts of metal products by welding on extra layers.

Welders may specialize in certain types of welding such as custom fabrication, ship building and repair, aerospace precision welding, pressure vessel welding, pipeline construction welding, structural construction welding, or machinery and equipment repair welding.

Welding, brazing and soldering machine operators

- Operate previously set up welding machines such as spot, butt and seam resistance or gas and arc welding machines to fabricate or repair metal parts
- Operate previously set up brazing or soldering machines to bond metal parts or to fill holes, indentations and seams of metal articles with solder
- Start up, shut down, adjust and monitor robotic welding production line
- Assist with the maintenance and repair of welding, brazing and soldering equipment
- May adjust welding heads and tooling according to work specifications.

Employment requirements

Welders

- Completion of secondary school is usually required.
- Completion of a three-year apprenticeship program
or
A combination of over three years of work experience in the trade and some college or industry courses in welding is usually required to be eligible for trade certification.
- Trade certification is compulsory in Alberta and available, but voluntary, in all other provinces and the territories.
- Red Seal endorsement is also available to qualified welders upon successful completion of the interprovincial Red Seal examination.

Welding, brazing and soldering machine operators

- Some secondary school education is required.
- Several months of on-the-job training are usually provided.
- Experience as a machine operator helper may be required.
- Experience with robotics may be required.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

722 Technical electrical trades

This sub-major group comprises technical electrical trades, including electricians (except industrial and power system); industrial electricians; power system electricians; electrical power line and cable workers; telecommunications line and cable installers and repairers; and telecommunications equipment installation and cable television service technicians.

7220 Technical electrical trades and electrical power line and telecommunications workers

This minor group comprises technical electrical trades, including electricians (except industrial and power system); industrial electricians; power system electricians; electrical power line and cable workers; telecommunications line and cable installers and repairers; and telecommunications equipment installation and cable television service technicians. They are employed by electrical contractors; maintenance departments of buildings, factories, plants, mines, shipyards and other industrial establishments; electric power generation, transmission and distribution companies and public utility commissions; cable and satellite television companies; and by telephone and other telecommunications services establishments; or they may be self-employed.

72200 Electricians (except industrial and power system)

Electricians (except industrial and power system) lay out, assemble, install, test, troubleshoot and repair electrical wiring, fixtures, control devices and related equipment in buildings and other structures. They are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice electrician
- construction electrician
- construction electrician apprentice
- domestic and rural electrician
- electrician

Exclusion(s)

- Electrical mechanics (72422)
- Electricians supervisor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Industrial electricians (72201)
- Power system electricians (72202)

Main duties

This group performs some or all of the following duties:

- Read and interpret drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations
- Pull wire through conduits and through holes in walls and floors
- Install brackets and hangers to support electrical equipment
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system, following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to audio and visual communication equipment, signalling devices and heating and cooling systems
- Conduct preventive maintenance programs and keep maintenance records.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program is usually required.
- Trade certification for construction electricians is compulsory in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta and available, but voluntary, in British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Trade certification for electricians (domestic and rural) is compulsory in Newfoundland and Labrador and Ontario.
- Trade certification for electrical control (machine) builders is available, but voluntary, in Ontario.
- Red Seal endorsement is also available to qualified construction electricians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72201 Industrial electricians

Industrial electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- industrial electrician
- industrial electrician apprentice
- marine electrician
- mill electrician
- mine electrician
- plant electrician
- plant maintenance electrician
- shipyard electrician

Exclusion(s)

- Construction electrician (See 72200-Electricians (except industrial and power system))
- Industrial electricians supervisor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Power system electricians (72202)

Main duties

This group performs some or all of the following duties:

- Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Install, examine, replace or repair electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components

- Test electrical and electronic equipment and components for continuity, current, voltage and resistance
- Maintain, repair, install and test switchgear, transformers, switchboard meters, regulators and reactors
- Maintain, repair, test and install electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices
- Conduct preventive maintenance programs and keep maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- or five-year industrial electrician apprenticeship program or
A combination of over five years of work experience in the trade and some high school, college or industry courses in industrial electrical equipment is usually required to be eligible for trade certification.
- Trade certification for industrial electricians is compulsory in Prince Edward Island, Quebec and Manitoba and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, New Brunswick, Ontario, British Columbia and the Yukon.
- Additional construction electrician certification may be required for industrial electricians when the employers are not owners of the industrial electrical equipment.
- Red Seal endorsement is also available to qualified industrial electricians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72202 Power system electricians

Power system electricians install, maintain, test and repair electrical power generation, transmission and distribution system equipment and apparatus. They are employed by electric power generation, transmission and distribution companies. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice power system electrician
- power electrician
- power station electrician
- power system electrician

Exclusion(s)

- Electrical mechanics (72422)
- Electrical power line and cable workers (72203)
- Electricians (except industrial and power system) (72200)
- Industrial electricians (72201)

- Power system electrician foreman/woman (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Power systems electricians supervisor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)

Main duties

This group performs some or all of the following duties:

- Install and maintain electrical power distribution equipment such as transformers, generators, voltage regulators, switches, circuit breakers, capacitors, inductors, and supervisory control and data acquisition (SCADA) systems
- Install and maintain electrical equipment and apparatus in generating stations or powerhouses
- Inspect and test installed electrical equipment and apparatus to locate electrical faults and check their operation, using volt meters, ammeters and other electrical test instruments and equipment
- Repair or replace faulty electrical equipment and apparatus
- Complete test and maintenance reports.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program for power system electricians
or
A combination of over four years of work experience in the trade and some college or industry courses in electrical technology is usually required.
- Trade certification is available, but voluntary, in Manitoba, Alberta, the Yukon, the Northwest Territories and Nunavut.

Additional information

- Progression to supervisory positions is possible with experience.

72203 Electrical power line and cable workers

Electrical power line and cable workers construct, maintain and repair overhead and underground electrical power transmission and distribution systems. They are employed by electric power generation, transmission and distribution companies, electrical contractors and public utility commissions. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice lineman/woman - electric power systems
- cable installer - electrical power
- cable splicer - electrical power
- construction lineman/woman - electrical power line
- power line patroller
- power lineman/woman
- powerline technician

Exclusion(s)

- Line and cable workers supervisor (See 72011-Contractors and supervisors, electrical trades and telecommunications occupations)
- Power system electricians (72202)
- Telecommunications line and cable installers and repairers (72204)

Main duties

This group performs some or all of the following duties:

- Install, maintain, troubleshoot and repair electrical distribution and transmission systems including overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers and other associated equipment
- Erect and maintain steel, wood or concrete poles, towers and guy wires
- Splice, solder and insulate conductors and related wiring to connect power distribution and transmission networks using splicing tools, related electrical equipment and tools
- Inspect and test overhead and underground power lines and cables and auxiliary equipment using electrical test equipment
- Climb ladders or operate hydraulic buckets when working aloft on poles and towers, or work in confined spaces such as trenches and tunnels to install power lines and cables and associated equipment
- Install and maintain street lighting systems
- Communicate with other workers to coordinate the preparation and completion of work assignments.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a provincial three- or four-year lineman/woman apprenticeship program or
A combination of over four years of work experience in the trade and some high school, college or industry courses in electrical technology is usually required for electrical power line and cable workers.
- Trade certification for powerline technicians is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Trade certification for powerline technicians (construction) is available, but voluntary, in Newfoundland and Labrador.
- Trade certification for distribution construction linemen/women is available, but voluntary, in New Brunswick.
- Red Seal endorsement is also available to qualified powerline technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72204 Telecommunications line and cable installers and repairers

Telecommunications line and cable installers and repairers install, repair and maintain telecommunication lines and cables, cable television transmission and distribution systems and associated hardware. They are employed by cable television, telephone and other telecommunications service companies. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice lineman/woman - telecommunications
- cable television installation technician
- cable television maintenance technician
- communication technician - construction
- construction technician - cable television
- telecommunication cable repairer
- telecommunications line installer
- telecommunications lineman/woman
- telephone line technician

Exclusion(s)

- Contractors and supervisors, electrical trades and telecommunications occupations (72011)
- Electrical power line and cable workers (72203)
- Telecommunications equipment installation and cable television service technicians (72205)

Main duties

This group performs some or all of the following duties:

- Install, remove, maintain and repair aerial and underground telephone, coaxial and fibre optic cable television, and other telecommunication transmission and distribution lines, cables and associated hardware
- Splice and repair various types and sizes of telephone and other telecommunication cables including single line, coaxial and fibre optic
- Repair or replace faulty cables, power supplies, amplifiers and other associated transmission and distribution equipment
- Inspect, monitor, test and adjust telecommunication transmission lines and cables and distribution systems
- Analyze and record test results
- Climb and work aloft on poles, ladders or other support structures or work in confined spaces such as trenches, tunnels and crawl spaces
- Communicate with other workers to coordinate the preparation and completion of work assignments
- Assist in the erection and removal of telecommunication poles, towers and associated support structures
- May operate excavation machinery and other heavy equipment.

Employment requirements

- Completion of secondary school is required.
- For telecommunication line and cable installers and repairers, completion of a four-year telecommunications line and cable apprenticeship program
or
A combination of over three years work experience in the trade and some industry- related or other specialized courses
or
Completion of a two-year college program in electronics is usually required.

- For cable television maintenance technicians, completion of a college program in electronics or
A combination of college, correspondence or industry courses related to electronics and electrical systems and on-the-job training
or
Completion of a four-year cable television technician apprenticeship program is required.
- Trade certification for network cabling specialists is available, but voluntary, in Ontario.

Additional information

- Progression to supervisory positions is possible with experience.

72205 Telecommunications equipment installation and cable television service technicians

Telecommunications equipment installation and cable television service technicians install, test, maintain and repair cable and satellite television, internet signal and associate equipment, telephones, telephone switching equipment and other telecommunications equipment related to transmission and processing of voice, video signals and other data over a variety of media including fibre optics, microwave, radio and satellite. They are employed by cable and satellite television, telephone and other telecommunications transmission service companies. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice communication electrician - switching
- cable television service technician
- cablevision servicer
- cellular telephone technician
- direct broadcast satellite (DBS) technician - cable television
- exchange tester - telecommunications
- mobile radio installer - telecommunications
- private branch exchange (PBX) installer - telecommunications
- switch network installer and repairer - telecommunications
- switch network installer and repairwoman - telecommunications
- telecommunications equipment technician
- telephone communication technician
- telephone installer
- telephone line and station installer

Exclusion(s)

- Contractors and supervisors, electrical trades and telecommunications occupations (72011)
- Electronic service technicians (household and business equipment) (22311)
- Telecommunications line and cable installers and repairers (72204)

Main duties

This group performs some or all of the following duties:

Telephone installers and repairers

- Install, arrange, remove and maintain telephone equipment, wiring and associated hardware
- Test installed telephone systems to locate transmission faults
- Repair or replace defective and damaged telephones, wire and associated equipment.

Switch network installers and repairers

- Install electromechanical, analog and digital trunking systems, circuits and equipment in telecommunications central offices and switching centres
- Inspect and test trunking systems, circuits and equipment
- Analyze test results and adjust, change or repair switching system, network, associated equipment and software.

Telecommunications service testers

- Operate computerized testing systems to conduct service tests on customer lines and equipment
- Determine the nature, cause and location of service trouble
- Dispatch appropriate repair personnel
- Complete test reports and maintain test and service records
- May assist repair personnel to test lines, circuits and systems, isolate and clear cable faults and verify records.

Telecommunications equipment technicians

- Install, remove and maintain various telecommunications equipment and related systems such as telex and facsimile machines, teletypewriters, mobile radios, cellular telephones, pagers and other telecommunications equipment
- Configure operating systems and install software for access to the Internet
- Inspect and test operation of telecommunications equipment
- Diagnose and locate equipment faults, and adjust, replace or repair telecommunications equipment.

Cable television service technicians

- Communicate with subscribers and company personnel to determine work assignments
- Connect, disconnect and relocate cable outlets, install splitters, converters, decoders, terminals, digital boxes and satellite equipment, and install other cable or wireless modems, routers and software to enable Internet access at subscriber's premises
- Inspect, test and repair cable and satellite television signals and associated equipment at subscriber's premises.

Employment requirements

- Completion of secondary school is required.
- Telephone and switch network installers and repairers require completion of an apprenticeship program ranging from three to four years,
or
A combination of over three years work experience in the trade and some high school, college or industry related courses.

- Cable television service technicians require completion of a college program in electronics or
A combination of college, correspondence or industry courses related to electronics and electrical systems and on-the-job training
or
Completion of a four-year cable television technician apprenticeship program is required.
- Telecommunications equipment technicians usually require completion of a college electrical and electronics program and several months of on-the-job training or completion of a three- or four-year apprenticeship training program.
- Trade certification for communication technicians is available, but voluntary, in Nova Scotia, Alberta, British Columbia, the Northwest Territories and Nunavut.
- Experience as an installer and repairer (telephone and switch network) is usually required for service testers.

Additional information

- Progression to supervisory positions for cable television service technician is possible with experience.

723 Technical construction trades

This sub-major group comprises technical construction trades, including plumbers, pipefitters and gas fitters; carpenters and cabinetmakers; and bricklayers and Insulators.

7230 Plumbers, pipefitters and gas fitters

This minor group comprises plumbers, steamfitters, pipefitters, sprinkler system installers, and gas fitters. They are employed by plumbing contractors; maintenance departments of factories, plants and similar establishments; pipefitting and sprinkler system contractors; and gas utility and gas servicing companies; or they may be self-employed.

72300 Plumbers

Plumbers install, repair and maintain pipes, fixtures and other plumbing equipment used for water distribution and waste water disposal in residential, commercial and industrial buildings. They are employed in maintenance departments of factories, plants and similar establishments, by plumbing contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- maintenance plumber
- plumber
- plumber apprentice
- plumbing mechanic

Exclusion(s)

- Gas fitters (72302)
- Plumbers supervisor (See 72012-Contractors and supervisors, pipefitting trades)
- Steamfitters, pipefitters and sprinkler system installers (72301)

Main duties

This group performs some or all of the following duties:

- Read blueprints, drawings and specifications to determine layout of plumbing system, water supply network and waste and drainage systems
- Install, repair and maintain domestic, commercial or industrial plumbing fixtures and systems
- Locate and mark positions for pipe connections, passage holes and fixtures in walls and floors
- Cut opening in walls and floors to accommodate pipe and pipe fittings
- Measure, cut, bend and thread pipes using hand and power tools or machines
- Join pipes using couplings, clamps, screws, bolts, cement or soldering, brazing and welding equipment
- Test pipes for leaks using air and water pressure gauges
- May prepare cost estimates.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program or
A combination of over five years of work experience in the trade and some high school, college or industry courses in plumbing is usually required to be eligible for trade certification.
- Trade certification is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Saskatchewan and Alberta and available, but voluntary, in Newfoundland and Labrador, Manitoba, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified plumbers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72301 Steamfitters, pipefitters and sprinkler system installers

Steamfitters and pipefitters lay out, assemble, fabricate, maintain, troubleshoot and repair piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems. Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes. Steamfitters, pipefitters and sprinkler system installers are employed in maintenance departments of factories, plants and similar establishments, and by pipefitting and sprinkler system contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice pipefitter-steamfitter
- fire protection mechanic
- fire sprinkler fitter
- marine pipefitter
- pipefitter
- sprinkler system fitter
- sprinkler system installer

- steamfitter
- steamfitter-pipefitter

Exclusion(s)

- Gas fitters (72302)
- Pipefitters supervisor (See 72012-Contractors and supervisors, pipefitting trades)
- Plumbers (72300)
- Residential and commercial installers and servicers (73200)
- Sprinkler system installers supervisor (See 72012-Contractors and supervisors, pipefitting trades)
- Steamfitters supervisor (See 72012-Contractors and supervisors, pipefitting trades)

Main duties

This group performs some or all of the following duties:

Steamfitters and pipefitters

- Read and interpret drawings, blueprints and specifications to determine layout requirements
- Cut openings for pipe in walls, floors and ceilings using hand or power tools or machines
- Select type and size of pipe required
- Measure, cut, thread and bend pipe to required shape using hand and power tools
- Weld, braze, cement, solder and thread joints to join pipes and fabricate sections of piping system
- Install supports, valves, piping and control systems
- Test system for leaks using testing equipment
- Clean and maintain pipe units and fittings and flush system
- Remove and replace worn components and reactivate system
- May prepare cost estimates for clients.

Sprinkler system installers

- Read and interpret drawings, specifications and fire codes to determine layout requirements
- Install clamps, brackets and hangers to support piping system and sprinkler and fire protection equipment, using hand and power tools
- Select, measure, cut, ream and thread pipe, install sprinkler heads and mount prepared pipe in supports
- Join pipes and piping sections using soldering and welding equipment
- Connect piping system to water mains, supply tanks, pumps, compressors and control equipment
- Installs valves, alarms and associated equipment
- Test system for leaks using air or liquid pressure equipment
- Service and repair sprinkler system
- May prepare cost estimates for clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program
or

A combination of over five years of work experience in the trade and some high school, college or industry courses in steamfitting, pipefitting or sprinkler system installation is usually required to be eligible for trade certification.

- Steamfitter-pipefitter trade certification is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba and Alberta and available, but voluntary, in all other provinces and the territories.
- Steamfitter-pipefitter (non-construction) trade certification is compulsory in Quebec.
- Sprinkler system installer trade certification is compulsory in Nova Scotia, New Brunswick, Quebec and Manitoba and available, but voluntary, in all other provinces and the territories.
- Sprinkler system installer (non-construction) trade certification is compulsory in Quebec.
- Red Seal endorsement is also available to qualified steamfitters-pipefitters and sprinkler system installers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72302 Gas fitters

Gas fitters install, inspect, repair and maintain gas lines and gas equipment such as meters, regulators and heating units in residential, commercial and industrial establishments. They are employed by gas utility companies and gas servicing companies. Apprentices are also included in this unit group.

Illustrative example(s)

- gas fitter
- gas fitter apprentice
- gas servicer
- gas technician
- industrial gas fitter-tester

Exclusion(s)

- Appliance servicers and repairers (72421)
- Gas fitters supervisor (See 72012-Contractors and supervisors, pipefitting trades)
- Plumbers (72300)
- Steamfitters, pipefitters and sprinkler system installers (72301)

Main duties

This group performs some or all of the following duties:

- Study drawings and specifications to determine the layout of the installation and materials required
- Measure and mark reference points for installation of gas lines and equipment
- Install and maintain gas meters and regulators and gas lines between gas unit and gas meter
- Install, maintain and service gas heating units and their components, such as burners, valves and automatic controls
- Test and replace defective equipment or components
- Test and adjust control mechanisms and check pipes and piping connections for gas leaks using gas detecting devices
- Attend to gas escape calls and assist in the investigation of gas fires and explosions
- Prepare reports on work performed and condition of facilities

- Advise clients regarding standards, safety features and maintenance of gas units and systems
- Convert motor vehicles or appliances to use natural gas fuels
- May repair and service gas appliances and related equipment.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- or three-year gas fitter apprenticeship program
or
Several years of work experience in a pipefitting trade and completion of a high school, college or industry gas fitter program are required.
- Gas fitter trade certification is compulsory in Nova Scotia, Quebec, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- A provincial gas fitter licence is usually required.

Additional information

- Progression to supervisory positions is possible with experience.

7231 Carpenters and cabinetmakers

This minor group comprises carpenters and cabinetmakers. They are employed by construction companies; carpentry and cabinetmaking contractors; maintenance departments of factories, plants and other establishments; and furniture manufacturing and repair companies; or they may be self-employed.

72310 Carpenters

Carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood substitutes, lightweight steel and other materials. They are employed by construction companies, carpentry contractors, and maintenance departments of factories, plants and other establishments, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice carpenter
- carpenter
- carpenter-joiner
- finish carpenter
- journeyman/woman carpenter
- maintenance carpenter
- metal framer - carpentry
- renovation carpenter
- rough carpenter
- stair builder-carpenter

Inclusion(s)

- log home builder

Exclusion(s)

- Cabinetmakers (72311)
- Carpenter supervisor (See 72013-Contractors and supervisors, carpentry trades)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

- Read and interpret blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepare layouts in conformance to building codes, using measuring tools
- Measure, cut, shape, assemble and join materials made of wood, wood substitutes, lightweight steel and other materials
- Build foundations, install floor beams, lay subflooring and erect walls and roof systems
- Fit and install trim items, such as doors, stairs, moulding and hardware
- Maintain, repair and renovate residences and wooden structures in mills, mines, hospitals, industrial plants and other establishments
- Supervise apprentices and other construction workers
- May prepare cost estimates for clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in carpentry is usually required to be eligible for trade certification.
- Trade certification for carpenters is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.
- Trade certification for framers is available, but voluntary, in Saskatchewan.
- Red Seal endorsement is also available to qualified carpenters upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72311 Cabinetmakers

Cabinetmakers use a variety of woods and laminates to construct and repair wooden cabinets, furniture, fixtures and related products. They are employed by furniture manufacturing or repair companies, construction companies and cabinetmaking contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- cabinetmaker
- cabinetmaker apprentice

- custom wood furniture maker
- furniture cabinetmaker

Exclusion(s)

- Cabinetmakers foreman/woman (See 72013-Contractors and supervisors, carpentry trades)
- Carpenters (72310)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

- Study plans, specifications or drawings of articles to be made, or prepare specifications
- Mark outlines or dimensions of parts on wood
- Operate woodworking machines, such as power saws, jointers, mortisers and shapers, and use hand tools to cut, shape and form parts and components
- Trim joints and fit parts and subassemblies together to form complete unit using glue and clamps and reinforce joints using nails, screws or other fasteners
- Sand wooden surfaces and apply veneer, stain or polish to finished products
- Repair or restyle wooden furniture, fixtures and related products
- May estimate amount, type and cost of materials required.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school or college courses in cabinetmaking is usually required to be eligible for trade certification.
- Trade certification is available, but voluntary, in all provinces and territories.
- Red Seal endorsement is also available to qualified cabinetmakers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

7232 Bricklayers and insulators

This minor group comprises bricklayers and insulators. They are employed by construction companies and bricklaying contractors; or they may be self-employed.

72320 Bricklayers

Bricklayers lay bricks, concrete blocks, stone and other similar materials to construct or repair walls, arches, chimneys, fireplaces and other structures in accordance with blueprints and specifications. They are employed by construction companies and bricklaying contractors or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice bricklayer
- bricklayer
- brickmason
- refractory bricklayer
- stonecutter
- stonemason

Exclusion(s)

- Bricklayer supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Concrete finishers (73100)
- Tilesetters (73101)

Main duties

This group performs some or all of the following duties:

- Read sketches and blueprints to calculate materials required
- Cut and trim bricks and concrete blocks to specification using hand and power tools
- Prepare and lay bricks, concrete blocks, stone, structural tiles and similar materials to construct or repair walls, foundations and other structures in residential, industrial and commercial construction
- Lay bricks or other masonry units to build residential or commercial chimneys and fireplaces
- Lay radial bricks to build masonry shells of industrial chimneys
- Lay or install firebricks to line industrial chimneys and smokestacks
- Line or reline furnaces, kilns, boilers and similar installations using refractory or acid-resistant bricks, refractory concretes, plastic refractories and other materials
- Lay bricks, stone or similar materials to provide veneer facing to walls or other surfaces
- Construct and install prefabricated masonry units
- Lay bricks or other masonry units to build patios, garden walls and other decorative installations
- May restore, clean or paint existing masonry structures.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in bricklaying is usually required to be eligible for trade certification.
- Trade certification for bricklayers is compulsory in Nova Scotia, New Brunswick and Quebec and available, but voluntary, in all other provinces and the Yukon.
- Trade certification for stonemasons is available, but voluntary, in Newfoundland and Labrador.
- Trade certification for restoration stone masons is available, but voluntary, in Nova Scotia.
- Red Seal endorsement is also available to qualified bricklayers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72321 Insulators

Insulators apply insulation materials to plumbing, air-handling, heating, cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures, to prevent or reduce the passage of heat, cold, sound or fire. They are employed by construction companies and insulation contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- boiler and pipe insulator
- building insulator
- firestopping insulator
- heat and frost insulator
- insulation applicator
- insulation mechanic
- insulator
- insulator apprentice
- sound insulator

Exclusion(s)

- Insulation supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

- Read and interpret drawings and specifications to determine insulation requirements and select type of insulation required
- Measure and cut insulating material to required dimensions using hand and power tools
- Apply and secure insulation using spraying, blowing, pasting, strapping, taping and other application and installation methods
- Fit insulation around obstructions and between studs and joists
- Install vapour barriers
- Apply waterproofing cement over insulating materials to finish surfaces
- Remove asbestos or urea-formaldehyde insulation from buildings when required.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in insulating is usually required to be eligible for trade certification.

- Trade certification for insulators (heat and frost) is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified insulators (heat and frost) upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

724 Technical maintenance trades

This sub-major group comprises technical maintenance trades, including machinery and transportation equipment mechanics (except motor vehicles); automotive service technicians; and small motor, engine and equipment and their electrical components mechanics, and related repairers.

7240 Machinery and transportation equipment mechanics (except motor vehicles)

This minor group comprises machinery and transportation equipment mechanics (except motor vehicles), including construction millwrights and industrial mechanics; heavy-duty equipment mechanics; heating, refrigeration and air conditioning mechanics; railway carmen/women; aircraft mechanics and aircraft inspectors; machine fitters; and elevator constructors and mechanics. They are employed by millwrighting contractors, manufacturing plants, utilities and other industrial establishments; heavy equipment dealers, rental and service establishments and companies that own and operate heavy equipment; refrigeration and air conditioning installation contractors, food wholesalers, engineering firms and retail and servicing establishments; railway transport companies and urban transit systems; aircraft manufacturing, maintenance, repair and overhaul establishments, and airlines and other aircraft operators; industrial machinery and transportation equipment manufacturing industries; and elevator construction and maintenance companies.

72400 Construction millwrights and industrial mechanics

Construction millwrights and industrial mechanics install, maintain, troubleshoot, overhaul and repair stationary industrial machinery and mechanical equipment. This unit group includes industrial textile machinery mechanics and repairers. Construction millwrights are employed by millwrighting contractors. Industrial mechanics are employed in manufacturing plants, utilities and other industrial establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- card fixer
- card grinder
- construction millwright
- industrial mechanic
- industrial mechanic apprentice
- industrial sewing machine mechanic
- knitting machine mechanic
- loom fixer
- loom technician
- maintenance millwright
- millwright

- millwright apprentice
- open-end technician
- plant equipment mechanic
- spinning fixer
- textile fixer
- textile machine mechanic
- textile machinery fixer
- treatment plant maintenance mechanic

Exclusion(s)

- Heavy-duty equipment mechanics (72401)
- Industrial instrument technicians and mechanics (22312)
- Industrial mechanics supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Millwright foreman/woman (See 72020-Contractors and supervisors, mechanic trades)

Main duties

This group performs some or all of the following duties:

Construction millwrights and industrial mechanics

- Read blueprints, diagrams and schematic drawings to determine work procedures
- Install, align, dismantle and move stationary industrial machinery and mechanical equipment, such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjust machinery and repair or replace defective parts
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Clean, lubricate and perform other routine maintenance work on machinery
- Construct foundations for machinery or direct other workers to construct foundations
- Assemble machinery and equipment prior to installation using hand and power tools and welding equipment.

Textile machinery mechanics and repairers

- Apply mechanical repair principles and procedures to make sure that machinery runs properly
- Detect defects and excessive wear in machinery and identify slight differences in dimensions and shapes of component parts
- Repair and overhaul electrical and mechanical systems on textile machinery and replace and align moving parts as required
- Set-up and adjust complex machinery for new patterns and products

- Analyze information to perform maintenance such as cleaning and lubrication of textile machinery, troubleshooting, and to test running and proper operation of machines
- Confer with management to recommend equipment changes and modifications and in evaluating new equipment.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a three- to four-year apprenticeship program
or
A combination of over five years of work experience and industry courses in industrial machinery repair or millwrighting is usually required to be eligible for trade certification.
- Textile machinery mechanics hired from other industries may require additional training in textile processes and experience as a textile manufacturing machinery operator.
- Industrial mechanic (millwright) trade certification is available, but voluntary, in all provinces and territories.
- Construction millwright trade certification is available, but voluntary, in Quebec and Ontario.
- Industrial sewing machine mechanic trade certification is available, but voluntary, in Quebec.
- Red Seal endorsement is also available to qualified industrial mechanics or millwrights upon successful completion of the interprovincial Red Seal examination.

Additional information

- Construction millwrights are mostly engaged in the initial installation of industrial plant machinery and equipment; industrial mechanics are more concerned with the post-installation maintenance and repair of machinery and equipment.
- Industrial mechanics and millwrights may be cross-trained in a second trade such as pipefitting, welding, machining or electrical maintenance.
- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72401 Heavy-duty equipment mechanics

Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in construction, transportation, forestry, mining, oil and gas, material handling, landscaping, land clearing, farming and similar activities. They are employed by companies which own and operate heavy equipment, and by heavy equipment dealers, rental and service establishments, railway transport companies and urban transit systems. Apprentices are also included in this unit group.

Illustrative example(s)

- agricultural equipment technician
- construction equipment mechanic
- diesel mechanic - heavy equipment
- farm equipment mechanic
- heavy equipment mechanic
- heavy mobile logging equipment mechanic
- heavy mobile mining equipment mechanic
- heavy-duty equipment mechanic apprentice
- heavy-duty equipment technician

- locomotive mechanic
- tractor mechanic

Exclusion(s)

- Construction millwrights and industrial mechanics (72400)
- Heavy equipment mechanics supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Motor vehicle diesel engine mechanic (See 72410-Automotive service technicians, truck and bus mechanics and mechanical repairers)

Main duties

This group performs some or all of the following duties:

- Check bulldozers, cranes, graders and other heavy construction, agricultural, logging and mining equipment for proper performance and inspect equipment to detect faults and malfunctions
- Diagnose faults or malfunctions using computerized and other testing equipment to determine extent of repair required
- Adjust equipment and repair or replace defective parts, components or systems, using hand and power tools
- Test repaired equipment for proper performance and to ensure that work meets manufacturers' specifications
- Clean, lubricate and perform other routine maintenance work on equipment
- Service attachments and working tools such as harvesting and tillage equipment, blades, ploughs, winches and side booms
- May perform repair work on heavy trucks
- May attach components and adjust new farm equipment.

Heavy-duty mechanics may specialize in specific types of machinery such as combines or tracked vehicles, or in engine overhaul, power shift transmissions, fuel injection, hydraulics or electronics.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a three- to five-year apprenticeship program
or
A combination of over four years of work experience and industry courses in heavy equipment repair is usually required to be eligible for trade certification.
- Heavy-duty equipment technician trade certification is compulsory in Quebec (only in the construction industry) and Alberta and available, but voluntary, in all other provinces and the territories.
- Agricultural equipment technician trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- Red Seal endorsement is also available to qualified heavy duty equipment technicians and agricultural equipment technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72402 Heating, refrigeration and air conditioning mechanics

Heating, refrigeration and air conditioning mechanics install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems. They are employed by heating, refrigeration and air conditioning installation contractors, various industrial settings, food wholesalers, engineering firms and retail and servicing establishments. Transport refrigeration mechanics are included in this unit group. Apprentices are also included in this unit group.

Illustrative example(s)

- central air conditioning mechanic
- commercial air conditioning mechanic
- heating and cooling mechanic
- heating, ventilation and air conditioning (HVAC) mechanic
- refrigeration and air conditioning mechanic apprentice
- refrigeration mechanic
- transport refrigeration mechanic

Exclusion(s)

- Air conditioning and refrigeration mechanic foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Domestic refrigerator repairer (See 72421-Appliance servicers and repairers)
- Domestic window air conditioner repairer (See 72421-Appliance servicers and repairers)

Main duties

This group performs some or all of the following duties:

- Read and interpret blueprints, drawings or other specifications
- Measure and lay out reference points for installation
- Assemble and install refrigeration or air conditioning components such as motors, controls, gauges, valves, circulating pumps, condensers, humidifiers, evaporators and compressors using hand and power tools
- Measure and cut piping, and connect piping using welding and brazing equipment
- Install, troubleshoot and overhaul entire heating, ventilation, air handling, refrigeration and air conditioning systems
- Start up system and test for leaks using testing devices
- Recharge system with refrigerant, check and test regulators, calibrate system and perform routine maintenance or servicing
- Repair and replace parts and components for entire refrigeration, air conditioning, ventilation or heat pump systems
- May install, maintain and repair equipment in refrigerated trucks used to transport food or medical supplies
- May prepare work estimates for clients.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a three- to five-year apprenticeship program
or
A combination of over five years of work experience and industry courses in refrigeration and air conditioning repair is usually required to be eligible for trade certification.

- Trade certification for refrigeration and air conditioning mechanics is compulsory in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta and available, but voluntary, in all other provinces and the territories.
- Trade certification for transport refrigeration mechanics is available, but voluntary, in New Brunswick and Alberta.
- Red Seal endorsement is also available to qualified refrigeration and air conditioning mechanics upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72403 Railway carmen/women

Railway carmen/women inspect, troubleshoot, maintain and repair structural and mechanical components of railway freight, passenger and urban transit rail cars. They are employed by railway transport companies and urban transit systems. Apprentices are also included in this unit group.

Illustrative example(s)

- rail vehicle mechanic
- railway car inspector
- railway carman/woman
- railway carman/woman apprentice
- streetcar and subway car mechanic

Exclusion(s)

- Locomotive mechanic (See 72401-Heavy-duty equipment mechanics)
- Railway car repairer foreman/woman (See 72020-Contractors and supervisors, mechanic trades)

Main duties

This group performs some or all of the following duties:

- Inspect interior and exterior components of freight, passenger and urban transit rail cars to determine defects and extent of wear and damage
- Repair and install railway car parts such as compressors, air valves, bearings, couplings, air cylinders and piping
- Repair and maintain electrical and electronic controls for propulsion and braking systems
- Repair defective or damaged metal and wood components, using hand and power tools
- Repair and repaint wooden fixtures
- Replace damaged windows and repair upholstery
- Test and adjust parts using testing gauges and other test equipment
- Perform and document routine maintenance.

Employment requirements

- Completion of secondary school is usually required.
- Completion of an industry-offered apprenticeship program or three to four years of on-the-job training is usually required.
- Trade certification is available, but voluntary, in Ontario, Manitoba and British Columbia.

Additional information

- Progression to supervisory positions is possible with experience.

72404 Aircraft mechanics and aircraft inspectors

Aircraft mechanics maintain, repair, overhaul, modify and test aircraft structural, mechanical and hydraulic systems. Aircraft inspectors inspect aircraft and aircraft systems following manufacture, modification, maintenance, repair or overhaul. Aircraft mechanics and aircraft inspectors are employed by aircraft manufacturing, maintenance, repair and overhaul establishments, and by airlines and other aircraft operators. Apprentices are also included in this unit group.

Illustrative example(s)

- aircraft gas turbine engine technician
- aircraft hydraulics mechanic
- aircraft inspector
- aircraft maintenance engineer (AME) (except avionics)
- aircraft mechanic
- aircraft repair and overhaul inspector
- aircraft repair shop inspector
- aircraft structural repair technician
- aircraft systems inspector
- aviation mechanical component shop technician
- certified aircraft technician
- flight test inspector

Exclusion(s)

- Aircraft assemblers and aircraft assembly inspectors (93200)
- Aircraft engine assembly fitter (See 72405-Machine fitters)
- Aircraft instrument, electrical and avionics mechanics, technicians and inspectors (22313)
- Aircraft mechanics and inspectors foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Airworthiness inspector (See 22231-Engineering inspectors and regulatory officers)
- Non-destructive test technician (See 22230-Non-destructive testers and inspectors)

Main duties

This group performs some or all of the following duties:

Aircraft mechanics

- Troubleshoot aircraft structural, mechanical or hydraulic systems to identify problems and adjust and repair systems according to specifications, technical drawings, manuals and established procedures
- Repair and overhaul aircraft structural, mechanical or hydraulic systems
- Install or modify aircraft engines and mechanical, hydraulic, flight control, fuel and pneumatic systems
- Dismantle airframes, aircraft engines or other aircraft systems for repair, overhaul and cleaning, and reassemble
- Perform and document routine maintenance
- Order and maintain inventory of parts and supplies.

Aircraft mechanics usually specialize in working on specific aircraft systems such as engines, engine accessories, airframes, propellers, mechanical components or hydraulic systems and specific kinds of aircraft, such as light aircraft, jet transports and helicopters.

Aircraft inspectors

- Inspect structural and mechanical systems of aircraft and ensure that these systems meet Transport Canada and company standards of performance and safety
- Inspect work of aircraft mechanics performing maintenance, repair and overhaul, or modification of aircraft and aircraft mechanical systems to ensure adherence to standards and procedures
- Maintain detailed repair, inspection and certification records of aircraft.

Employment requirements

- Completion of secondary school is required.
- A college diploma in aircraft maintenance or
Completion of a four-year apprenticeship program is usually required.
- Several years of on-the-job training are required for aircraft mechanics.
- Aircraft mechanics and inspectors who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence issued by Transport Canada.
- Trade certification for aircraft maintenance engineers is available, but voluntary, in Saskatchewan, the Northwest Territories and Nunavut.
- Trade certification for aircraft structural technicians is available, but voluntary, in British Columbia.
- Industry certification from the Canadian Aviation Maintenance Council for some occupations in this unit group is available, but voluntary.
- Aircraft inspectors require several years of experience as an aircraft mechanic.

Additional information

- Aircraft mechanics may progress to foreman/woman, shop supervisor or aircraft inspector.
- With experience, aircraft inspectors may progress to shop inspector or supervisor.
- Aircraft mechanics and inspectors may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and aircraft systems.
- AME licences are issued in the following categories: M - Small and Large Aircraft, E - Electronic Systems, S - Aircraft Structures.

72405 Machine fitters

Machine fitters fit, assemble and otherwise build heavy industrial machinery and transportation equipment, including aircraft engines. They are employed in industrial machinery and transportation equipment manufacturing industries.

Illustrative example(s)

- aircraft engine fitter
- assembly fitter
- heavy equipment fitter
- machine builder
- machine fitter
- machine tool builder
- mechanical fitter

Exclusion(s)

- Aircraft assembler (See 93200-Aircraft assemblers and aircraft assembly inspectors)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (94203)
- Machine fitters supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Mechanical assemblers and inspectors (94204)
- Millwright (See 72400-Construction millwrights and industrial mechanics)
- Welders and related machine operators (72106)

Main duties

This group performs some or all of the following duties:

- Read and interpret blueprints, sketches and diagrams to determine assembly operations
- Fit and assemble prefabricated metal parts to build heavy industrial machinery and equipment such as construction, farming, and processing machinery, railway vehicles and aircraft engines
- Move and align subassemblies and components using lifting and transporting devices such as overhead cranes
- Install major components such as gears, pumps, motors or hydraulic assemblies
- Inspect parts, subassemblies and finished products to ensure quality.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a mechanical apprenticeship program, such as millwrighting, machining, pipefitting, automotive service or heavy equipment repair or completion of a four-year machine fitter apprenticeship program or completion of five years of on-the-job training is usually required.
- Completion of a two- to three-year college program in aircraft manufacturing or general fabrication is required for aircraft engine fitters.
- Certification in a related trade may be required.

Additional information

- Progression to supervisory positions is possible with experience.

72406 Elevator constructors and mechanics

Elevator constructors and mechanics assemble, install, maintain and repair freight and passenger elevators, escalators, moving walkways and other related equipment. They are employed by elevator construction and maintenance companies.

Illustrative example(s)

- elevator constructor
- elevator mechanic
- elevator mechanic apprentice
- escalator repairer

Exclusion(s)

- Elevator constructors foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Elevator inspector (See 22231-Engineering inspectors and regulatory officers)
- Elevator mechanic foreman/woman (See 72020-Contractors and supervisors, mechanic trades)

Main duties

This group performs some or all of the following duties:

- Read and interpret blueprints to determine layout of system components
- Perform preparatory construction work including steel work, wiring and piping
- Install elevators, escalators, moving walkways, dumbwaiters and related equipment according to specifications
- Connect car frames to counterweights with cables and assemble elevator cars
- Install and wire electric and electronic control system devices
- Install, test and adjust safety control devices
- Test operation of newly installed equipment
- Troubleshoot electrical or mechanical systems failures
- Disassemble defective units and repair or replace worn or suspect parts
- Adjust valves, ratchets, seals, brake linings and other components
- Carry out preventative maintenance programs to ensure public safety.

Elevator constructors and mechanics may specialize in construction, maintenance or repair.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in elevator construction or repair is usually required to be eligible for trade certification.
- Elevator constructor and mechanic trade certification is compulsory in Quebec and Alberta and available, but voluntary, in British Columbia, the Northwest Territories and Nunavut.

Additional information

- Progression to supervisory positions is possible with experience.

7241 Automotive service technicians

This minor group comprises automotive service technicians, including automotive service technicians, truck and bus mechanics and mechanical repairers, and auto body collision, refinishing and glass technicians and damage repair estimators. They are employed by motor vehicle dealers, garages, truck and trailer dealerships and fleet maintenance companies; service stations, automotive specialty shops, transportation companies and retail establishments which have automotive service shops; automobile dealerships, body repair shops and appraisal centres; and motor vehicle manufacturers.

72410 Automotive service technicians, truck and bus mechanics and mechanical repairers

Automotive service technicians, truck and bus mechanics and mechanical repairers inspect, diagnose, repair and service mechanical, electrical and electronic systems and components of cars, buses, and light and commercial transport trucks. They are employed by motor vehicle dealers, garages, truck and trailer dealerships, fleet maintenance companies, and service stations, automotive specialty shops, transportation companies and retail establishments which have automotive service shops. This unit group also includes mechanical repairers who perform major repairs and replacement of mechanical units on newly assembled motor vehicles. They are employed by motor vehicle manufacturing companies. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice motor vehicle mechanic
- automobile mechanic
- automotive service technician
- brake systems mechanic
- bus mechanic
- mechanical upgrader - motor vehicle manufacturing
- motor repairer - motor vehicle manufacturing
- transmission mechanic
- truck and transport mechanic
- truck-trailer repairer
- tune-up specialist - motor vehicle

Exclusion(s)

- Auto body collision, refinishing and glass technicians and damage repair estimators (72411)
- Heavy-duty equipment mechanics (72401)
- Motor vehicle assemblers, inspectors and testers (94200)
- Motor vehicle mechanics supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Recreation vehicle service technician (See 72423-Motorcycle, all-terrain vehicle and other related mechanics)
- Supervisors, motor vehicle assembling (92020)
- Truck trailer assembler (See 94204-Mechanical assemblers and inspectors)

Main duties

This group performs some or all of the following duties:

Automotive service technicians

- Review work orders and discuss work with supervisor

- Inspect motor in operation, road test motor vehicle, and test automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace parts and components of automotive systems including fuel system, brakes, steering and suspension, engine and drive train, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized automotive repair equipment
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service, such as oil changes, lubrications and tune ups
- Advise customers on work performed, general vehicle condition and future repair requirements.

Mechanical repairers - motor vehicle manufacturing

- Inspect and test mechanical units, such as engines, transmissions, axles and brake systems, to locate faults and malfunctions
- Diagnose faults or malfunctions and confirm findings with supervisor to determine whether to repair or replace unit
- Repair or replace mechanical units or components using hand and power tools
- Test and adjust units to specifications for proper performance
- Complete reports to record problems and work performed.

Truck and transport and truck-trailer mechanics

- Adjust, repair or replace parts and components of commercial transport truck systems including chassis, frame, cab, body, engine and drive train, air brakes, steering, and fuel, hydraulic, electrical and electronic systems
- Adjust, repair or replace parts and components of truck-trailer systems including structural, brake and electrical systems.

Workers in this unit group may specialize in the following areas: engine and fuel systems, transmission systems, air conditioning, cooling and heating systems, steering, alignment, brakes, drive lines, suspension, electrical and electronic systems, truck-trailer repair or diagnostic services.

Employment requirements

Automotive service technicians

- Completion of secondary school and training courses or a vocational program are usually required.
- Completion of a four-year automotive service technician apprenticeship program
or
A combination of over four years of work experience and industry courses in automotive technology is required to be eligible for trade certification.
- Trade certification for automotive service technicians is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Quebec, Manitoba, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Automotive service technician (transmission) trade certification is compulsory in Ontario.
- Automotive service technician (steering, suspension and brakes) trade certification is compulsory in New Brunswick and Ontario.
- Automotive service technician (service station mechanic) trade certification is compulsory in Nova Scotia and available, but voluntary, in Prince Edward Island.
- Red Seal endorsement is also available to qualified automotive service technicians upon successful completion of the interprovincial Red Seal examination.

Mechanical repairers, motor vehicle manufacturing

- Completion of secondary school and training courses or a vocational program are usually required.
- On-the-job training of two to three years is provided by employers.

Truck and transport and truck-trailer mechanics

- Completion of secondary school and training courses or a vocational program are usually required.
- Completion of a four-year truck and transport mechanic or truck-trailer repair apprenticeship or
A combination of over four years of work experience and industry courses in truck or heavy duty equipment mechanics is required to be eligible for trade certification.
- Trade certification for truck and transport mechanics is compulsory in Nova Scotia, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Quebec, Manitoba, Saskatchewan, British Columbia and the Yukon.
- Transport trailer technician trade certification is compulsory in Ontario and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, British Columbia and the Yukon.
- Red Seal endorsement is also available to qualified truck-trailer repairers and truck and transport mechanics upon successful completion of the interprovincial Red Seal examination.

Additional information

- With additional training, mobility is possible between automobile and truck and transport mechanics.
- The Red Seal endorsement allows for interprovincial mobility.
- With experience, mechanics and technicians in this unit group may progress to supervisory positions.
- Mechanical repairers employed in motor vehicle manufacturing may progress to motor vehicle mechanic positions through an apprenticeship program, or with experience, they may progress to supervisory positions in motor vehicle manufacturing.

72411 Auto body collision, refinishing and glass technicians and damage repair estimators

Auto body collision, refinishing and glass technicians repair and restore damaged motor vehicle body parts and interior finishing; repaint body surfaces; repair and/or replace automotive glass and repair defective automobile body parts and damage to the bodies of newly assembled cars. Damage repair estimators assess the degree of damage to a vehicle and estimate the cost of parts and labour. They are employed by automobile dealerships, automobile body repair shops, automobile appraisal centres and by motor vehicle manufacturers. This unit group also includes metal repairers. Apprentices are also included in this unit group.

Illustrative example(s)

- auto body and collision technician
- auto body repairer
- automobile damage repair estimator
- automotive body mechanic
- automotive glass technician
- automotive painter - motor vehicle repair
- automotive painter apprentice
- metal finisher - motor vehicle manufacturing
- metal repairer - motor vehicle manufacturing

- motor vehicle body technician - truck
- painter - motor vehicle repair

Exclusion(s)

- Automotive service technicians, truck and bus mechanics and mechanical repairers (72410)
- Car painter - manufacturing (See 94213-Industrial painters, coaters and metal finishing process operators)
- Motor vehicle body repairers foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Supervisors, motor vehicle assembling (92020)

Main duties

This group performs some or all of the following duties:

Auto body collision, refinishing and glass technicians

- Review damage report and estimates of repair cost and plan work to be performed
- Repair and replace front end components, body components, doors and frame and underbody components
- Hammer out dents, buckles and other defects using blocks and hammers
- Operate soldering equipment or use plastic filler to fill holes, dents and seams
- Remove damaged fenders, panels and grills using wrenches and cutting torch and bolt or weld replacement parts into place
- Straighten bent frames using frame and underbody pulling and anchoring equipment
- File, grind and sand repaired body surfaces using hand and power tools
- Mask and tape auto body surfaces in preparation for painting
- Mix paint, blend and match colours
- Apply primers and repaint surfaces using brush or spray guns
- Repair and replace glass components such as windshields, windows and sunroofs
- Repair or replace interior components, such as seat frame assembly, carpets and floorboard insulation
- Inspect repaired vehicles and test drive vehicles for proper handling.

Automobile damage repair estimator

- Inspect vehicle and estimate the costs and times for the repair and restoration of the vehicle
- Write report on damage and cost estimate
- Plan and coordinate work processes with the technicians
- Follow automobile industry safety norms and standards
- Provide customer service, such as answering all customer inquiries and explaining the complete repair process
- Follow up with insurance companies for claim related correspondence
- Order parts and material
- Maintain accurate documentation and obtain customer signatures
- Oversee final repairs for appearance and quality of work.

Employment requirements

Auto body and collision technicians

- Completion of secondary school is usually required.

- Completion of a three- to four-year auto body and collision damage technician apprenticeship program or a combination of over three years of work experience in the auto body and collision technician trade and completion of a professional or college automotive body repair program is usually required to be eligible for trade certification.
- Trade certification for auto body and collision technician is compulsory in Nova Scotia, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Auto body repairer certification is compulsory in Ontario and Alberta and available, but voluntary, in the Yukon and the Northwest Territories.
- Red Seal endorsement is also available to qualified auto body and collision technician upon successful completion of the interprovincial Red Seal examination.

Automotive refinishing technicians

- Completion of secondary school is usually required.
- Completion of a two- to three-year automotive painter apprenticeship program or a combination of one year of work experience in the automotive refinishing technicians trade and completion of a high school or college automotive painting program is usually required for automotive refinishing technicians trade certification.
- Automotive refinishing technicians certification is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, British Columbia, the Yukon and the Northwest Territories.
- Red Seal endorsement is also available to qualified automotive refinishing technicians upon successful completion of the interprovincial Red Seal examination.

Automotive glass technicians

- Completion of secondary school is usually required.
- Auto glass industry certification is usually required.
- Apprenticeship training and trade certification for automotive glass technicians is available, but voluntary, in Nova Scotia, Ontario and British Columbia.

Automobile damage repair estimator

- Completion of secondary school is usually required.
- A combination of two- to three-year of relevant automotive experience and education is usually required.

Metal repairers, motor vehicle manufacturing

- Completion of secondary school is usually required.
- One to two years of on-the-job training are provided.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- With experience, auto body, collision and refinishing technicians and tradespersons and automobile damage repair estimators may progress to supervisory positions.
- Metal repairers employed in motor vehicle manufacturing may progress to motor vehicle repairer positions through an apprenticeship program, or, with experience, they may progress to supervisory positions in motor vehicle manufacturing.

7242 Small engine and equipment mechanics and related repairers (including electrical components)

This minor group comprises small engine and equipment mechanics and related repairers, including oil and solid fuel heating mechanics; appliance servicers and repairers; electrical mechanics; motorcycle, all-terrain vehicle and other related mechanics; and other small engine and small equipment repairers. They are employed by heating systems installation and service companies; repair shops, appliance service companies and repair departments of retail and wholesale establishments; independent electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies; service shops of motorcycle dealers and retailers; other dealer service shops; and independent service establishments; or they may be self-employed.

72420 Oil and solid fuel heating mechanics

Oil and solid fuel heating mechanics install and maintain oil, coal and wood heating systems in residential and commercial buildings. They are employed by heating systems installation and service companies. Apprentices are also included in this unit group.

Illustrative example(s)

- furnace installer and repairer (except gas)
- heating service mechanic
- heating systems technician
- oil burner installer
- oil burner mechanic
- oil burner mechanic apprentice
- wood burner installer

Exclusion(s)

- Gas fitters (72302)
- Heating, refrigeration and air conditioning mechanics (72402)
- Oil burner installation foreman/woman (See 72020-Contractors and supervisors, mechanic trades)

Main duties

This group performs some or all of the following duties:

- Read and interpret drawings or specifications to determine work to be performed
- Lay out oil burner heating system components and assemble components using hand and power tools
- Install oil burner components such as thermostats, motors, piping and safety devices, and connect to fuel supply, ventilation and electrical system
- Test installed unit and adjust controls for proper functioning
- Troubleshoot and repair malfunctioning oil burners, and their components and controls
- Install, maintain and repair coal and wood heating systems
- Perform scheduled maintenance service on oil and solid fuel heating systems.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a three- to four-year apprenticeship program or
A combination of over four years of work experience and industry courses in heating systems installation and repair is usually required for trade certification.
- Oil heat system technician trade certification is compulsory in Nova Scotia and New Brunswick and is available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified oil heat system technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72421 Appliance servicers and repairers

Appliance servicers and repairers service and repair domestic and commercial appliances. They are employed by repair shops, appliance service companies and repair departments of retail and wholesale establishments, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- appliance service technician
- appliance service technician apprentice
- appliance servicer
- commercial foodservice appliance technician
- commercial laundry appliance technician
- dishwasher repairer
- refrigerator repairer
- service technician - electrical appliances
- service technician - gas appliances
- stove repairer
- vacuum cleaner repairer
- washing machine servicer
- window air conditioner repairer

Exclusion(s)

- Contractors and supervisors, mechanic trades (72020)
- Electronic service technicians (household and business equipment) (22311)
- Gas fitters (72302)
- Heating, refrigeration and air conditioning mechanics (72402)
- Other small engine and small equipment repairers (72429)
- Residential and commercial installers and servicers (73200)

Main duties

This group performs some or all of the following duties:

Small electrical appliance servicers and repairers

- Repair small electrical appliances, such as lawn and garden equipment and power tools
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Observe operation of appliance and conduct voltage, resistance and other tests using electrical test equipment
- Refer to schematic drawings or product manuals and replace or repair parts or components using hand tools and soldering equipment
- Prepare estimates and written accounts of work performed.

Major appliance repairers/technicians

- Repair major electrical or gas appliances, such as domestic and commercial dishwashing equipment, stoves, laundry equipment and refrigerators in customer's home, in customer's place of business or in repair shop
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Diagnose faults by checking controls, condensers, timer sequences, fans and other components using test equipment such as meters and gauges to measure resistance, current, voltage, pressure, temperature, flue gases and flow rates
- Refer to schematic diagrams or product manuals and disassemble appliance using hand tools
- Use shop equipment and specialized diagnostic and programming apparatus to repair, adjust and reprogram appliances
- Replace components and subcomponents and reassemble appliance using hand tools and soldering and brazing equipment
- Prepare estimates and written accounts of work performed
- May plan service routes.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Small appliance repairers usually require some specialized college or high school courses or several months of on-the-job training.
- Major appliance repairers/technicians require some secondary school education and completion of a college program in appliance repair
or
Completion of a three- or four-year apprenticeship program in appliance repair.
- Appliance service technician, or appliance serviceperson, trade certification is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, British Columbia, the Northwest Territories and Nunavut.
- A provincial gas fitter licence, or gas appliance technician certificate, may be required for gas appliance service technicians.
- Red Seal endorsement is also available to qualified appliance service technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72422 Electrical mechanics

Electrical mechanics maintain, test, rebuild and repair electric motors, transformers, switchgear and other electrical apparatus. They are employed by independent electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies. Apprentices are also included in this unit group.

Illustrative example(s)

- armature winder repairer
- coil winder and repairer
- electric motor systems technician
- electrical mechanic
- electrical mechanic apprentice
- electrical rewind mechanic
- electrical transformer repairer
- industrial motor winder-repairer
- power transformer repairer
- transformer repairer

Exclusion(s)

- Aircraft electrical mechanic (See 22313-Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (94203)
- Electromechanical technicians foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Industrial electricians (72201)

Main duties

This group performs some or all of the following duties:

- Test and observe electrical, electronic and mechanical components and systems using testing and measuring instruments
- Troubleshoot and repair electric motors, transformers, switchgear, generators and other electro-mechanical equipment
- Replace or recondition shafts, bearings, commutators and other components
- Wind, assemble and install various types of coils for electric motors or transformers
- Perform static or dynamic balancing of armatures or rotors by welding, brazing or soldering electrical connections and by aligning and adjusting parts
- Test and repair or replace faulty wiring or components in electrical switchgear
- Test repaired motors, transformers, switchgear or other electrical apparatus to ensure proper performance
- Perform some machining to recondition or modify shafts, commutators or other parts
- Perform on-site servicing and repair.

Electrical mechanics may specialize in working with certain types of apparatus, such as electric motors or transformers, or in performing certain functions, such as winding coils.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a four-year apprenticeship program
or
A combination of over four years of work experience and industry courses in electrical mechanics is usually required for trade certification.
- Trade certification as an electric motor system technician is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Alberta, British Columbia, the Yukon and Nunavut.
- Electrical motor and equipment repairer - winding trade certification is available, but voluntary, in Quebec.
- Electrical motor system technician (electrical utility) trade certification is available, but voluntary, in New Brunswick.
- Red Seal endorsement is also available to qualified electric motor system technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Although specialization may occur, workers in this unit group are required to be proficient in repairing all electrical apparatus.
- Progression to supervisory positions is possible with experience.

72423 Motorcycle, all-terrain vehicle and other related mechanics

Motorcycle, all-terrain vehicle and other related mechanics test, repair and service motorcycles, motor scooters, snowmobiles, outboard motors, forklifts and all-terrain vehicles. They are employed by service shops of motorcycle dealers and retailers and by independent service establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- all-terrain vehicle repairer
- forklift mechanic
- industrial truck repairer
- lift truck mechanic
- motor boat mechanic
- motor scooter repairer
- motorcycle mechanic
- motorcycle mechanic apprentice
- outboard motor mechanic
- recreation vehicle technician
- snowmobile repairer

Exclusion(s)

- Motorcycle mechanics foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Other small engine and small equipment repairers (72429)

Main duties

This group performs some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engine and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired systems for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Repair or replace electrical wiring, plumbing, propane gas lines, appliances, windows, doors, cabinets and structural frames in recreational vehicles
- Determine estimates of repair cost
- May repair and rebuild hoisting mechanism and other mechanical systems on industrial trucks and forklifts.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- For motorcycle mechanics, completion of a three- to four-year apprenticeship program or
A combination of over three years of work experience and high school or college courses in motorcycle repair is usually required to be eligible for trade certification.
- Motorcycle mechanic trade certification is compulsory in Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick and British Columbia.
- Red Seal endorsement is also available to qualified motorcycle mechanics upon successful completion of the interprovincial Red Seal examination.
- For recreation vehicle technicians, completion of a two- to four-year apprenticeship program or
College, high school or industry courses combined with several years of related work experience or
Several years of on-the-job training are required.
- Trade certification for recreation vehicle service technicians is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, British Columbia and the Yukon.
- Red Seal endorsement is also available to qualified recreation vehicle service technicians upon successful completion of the interprovincial Red Seal examination.
- Other mechanics in this unit group may require several years of on-the-job training.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- There is mobility among some occupations in this unit group.
- Progression to supervisory positions is possible with experience.

72429 Other small engine and small equipment repairers

Other small engine and small equipment repairers test, repair and service small gasoline and diesel-powered engines and equipment, such as garden tractors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- air-cooled engine mechanic
- gasoline-powered lawn mower repairer
- lawn and garden equipment technician
- small engine technician
- small equipment mechanic apprentice
- small equipment repairer

Exclusion(s)

- Appliance servicers and repairers (72421)
- Contractors and supervisors, mechanic trades (72020)
- Motorcycle, all-terrain vehicle and other related mechanics (72423)

Main duties

This group performs some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engines and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired equipment for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Determine estimates of repair cost.

Employment requirements

- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of a three- to four-year apprenticeship program in small engine or equipment repair or
A combination of several years of work experience and high school or college courses in small engine or equipment repair are usually required for trade certification.
- Small engine or equipment mechanic trade certification is available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Ontario and Nunavut.
- Inboard/outboard mechanic trade certification is available, but voluntary, in Ontario and British Columbia.
- Outdoor power equipment technician trade certification, for specified types of equipment, is available, but voluntary, in Manitoba, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.

Additional information

- Progression to supervisory positions is possible with experience.

725 Technical equipment operation trades

This sub-major group comprises the technical equipment operation trades, including crane operators and water well drillers.

7250 Crane operators and water well drillers

This minor group comprises crane operators and water well drillers. They are employed by construction, industrial, cargo handling, railway, water well drilling contractors; and governments; or they may be self-employed.

72500 Crane operators

Crane operators operate cranes or draglines to lift, move, position or place machinery, equipment and other large objects at construction or industrial sites, ports, railway yards, surface mines and other similar locations. They are employed by construction, industrial, mining, cargo handling and railway companies. Apprentices are also included in this unit group.

Illustrative example(s)

- boom truck crane operator
- bridge crane operator
- climbing crane operator
- construction crane operator
- crane operator
- dragline crane operator
- gantry crane operator
- hoist operator (except underground mining)
- mobile crane operator
- tower crane operator
- tractor crane operator

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)
- Heavy equipment operators (73400)
- Underground production and development miners (83100)

Main duties

This group performs some or all of the following duties:

- Operate mobile and tower cranes to lift, move, position or place equipment and materials
- Perform pre-operational inspection, and calculate crane capacities and weight to prepare for rigging and hoisting
- Operate pile driving cranes to drive pilings into earth to provide support for buildings and other structures
- Operate cranes equipped with dredging attachments to dredge waterways and other areas
- Operate gantry cranes to load and unload ship cargo at port side
- Operate locomotive cranes to move objects and materials at railway yards
- Operate bridge or overhead cranes to lift, move and place plant machinery and materials
- Operate offshore oil rig cranes to unload and reload supply vessels
- Operate cranes mounted on boats or barges to lift, move and place equipment and materials
- Operate dragline cranes to expose coal seams and ore deposits at open pit mines
- May assemble tower cranes on site
- Perform routine maintenance work such as cleaning and lubricating cranes.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- to three-year apprenticeship program or Industry courses in crane operating are usually required.
- Mobile crane operator trade certification, for specified types of cranes, is compulsory in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Alberta and British Columbia and available, but voluntary, in all other provinces and the Northwest Territories.
- Tower crane operator trade certification is compulsory in Newfoundland and Labrador, Nova Scotia, Quebec, Ontario, Manitoba, Alberta and British Columbia and available, but voluntary, in Prince Edward Island.
- Hoist operator trade certification, for specified types of cranes, is compulsory in Quebec, Ontario, Manitoba, Alberta and British Columbia and is available, but voluntary, in New Brunswick, Saskatchewan, the Northwest Territories and Nunavut.
- Mobile crane operators may require a provincial licence to drive mobile cranes on public roads.
- Internal company certification as a crane operator may be required by some employers.
- Red Seal endorsement is also available to qualified mobile crane and tower crane operators upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

72501 Water well drillers

Water well drillers operate a variety of mobile water well drilling rigs and equipment to drill and monitor residential, commercial and industrial water wells. They are employed by water well drilling contractors and governments, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- cable tool driller - water well drilling
- churn drill operator - water well drilling
- water well driller
- water well driller apprentice

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)
- Driller - underground mining (See 83100-Underground production and development miners)
- Drillers and blasters - surface mining, quarrying and construction (73402)
- Oil and gas well drillers, servicers, testers and related workers (83101)

Main duties

This group performs some or all of the following duties:

- Review client requirements and proposed locations for water wells
- Operate water well drilling rigs and other equipment to drill, bore and dig for residential, commercial and industrial water wells or environmental assessment, and install well screens, casings and other well fixtures

- Document geological formations encountered
- Clean and disinfect wells in preparation for use
- Perform routine mechanical maintenance work on water well drilling rigs and equipment
- Install, test, maintain and repair water well pumps, piping systems and equipment and perform pumping tests to assess well performance
- May provide other drilling services, such as repair or dismantling of existing water well structure, elevator shaft drilling and hydro pole drilling.

Water well drillers may specialize in a specific method of drilling, such as cable, rotary, auger, hammer or reverse circulation drilling.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year water well drilling apprenticeship program
or
Two to three years of work experience in the trade combined with college or industry courses in water well drilling is usually required to be eligible for trade certification.
- Trade certification is available, but voluntary, in New Brunswick, Ontario, Saskatchewan, Alberta and British Columbia.

Additional information

- Mobility is possible among the various well drilling operators in this unit group.
- Progression to supervisory positions is possible with experience.

726 Transportation officers and controllers

This sub-major group comprises transportation officers and controllers, including air pilots, flight engineers and flying instructors; air traffic controllers and related occupations; deck officers in water transport; engineer officers in water transport; and railway traffic controllers and marine traffic regulators.

7260 Transportation officers and controllers

This minor group comprises transportation officers and controllers, including air pilots, flight engineers and flying instructors; air traffic controllers and related occupations; deck officers in water transport; engineer officers in water transport; and railway traffic controllers and marine traffic regulators. They are employed by airline, air freight, air services, and marine transportation companies; flying schools, and other public and private sector aircraft operators; port, harbour, canal, and lock authorities; and NAV Canada, the Canadian Armed Forces, the Canadian Coast Guard, and other federal government departments.

72600 Air pilots, flight engineers and flying instructors

Air pilots fly fixed wing aircraft and helicopters to provide air transportation and other services such as crop spraying and aerial surveying. Flight engineers assist air pilots with monitoring, troubleshooting and maintenance of aircraft systems and with pre- and post-flight inspections. Flying instructors teach flying techniques and procedures to student and licensed pilots. Air pilots, flight engineers and flight instructors are employed by airline and air freight companies, flying schools and by other public and private sector aircraft operators.

Illustrative example(s)

- air pilot
- captain - air transport

- check pilot
- chief flying instructor
- chief pilot
- co-pilot
- flight engineer
- flying instructor
- helicopter pilot
- pilot instructor
- relief pilot
- second officer - air transport
- test pilot

Exclusion(s)

- Air traffic controllers and related occupations (72601)
- Ground school instructor (See 41210-College and other vocational instructors)

Main duties

This group performs some or all of the following duties:

Air pilots

- Conduct pre-flight inspection of aircraft and check passenger and cargo distribution to ensure that weight and balance specifications are met
- Coordinate flight activities with ground crews and air-traffic control, inform crew members of flight and test procedures and direct activities of aircraft crew during flights
- Contact control towers for takeoff clearances, arrival instructions and other information
- Conduct in-flight tests and monitor functioning of aircraft equipment and systems during flights, maintain communications with flight dispatchers and weather forecasters and respond to and report in-flight emergencies and malfunctions
- Prepare flight evaluation reports
- Train pilots to use new equipment, or prepare them for examinations to revalidate or upgrade existing licences
- May fly new or experimental planes to examine their flight performance and safety
- May participate in search and rescue operations, forest firefighting, aerial surveying, crop dusting and other services.

Flight engineers

- Inspect aircraft prior to takeoff according to pre-flight checklist and verify passenger and cargo distribution to ensure that weight and balance specifications are met
- Assist air pilots in monitoring aircraft systems, equipment and functions during flight
- Make in-flight repairs, such as replacing fuses and adjusting instruments, and follow emergency procedures to compensate for equipment malfunction or failure
- Perform post-flight inspections, record equipment malfunctions and corrective actions taken during flight and report required repairs to ground maintenance personnel.

Flying instructors

- Instruct student pilots in procedures and techniques of flying aircraft and in ground-school subjects such as navigation, radio procedures and flying regulations
- Train licensed pilots for additional certification.

Employment requirements

Pilots and flight engineers

- Completion of secondary school and graduation from a certified flying or aviation school are required.
- A university degree or college diploma may be required.
- A commercial pilot's licence (more than 200 hours of flight experience) or an air transport pilot's licence (more than 1500 hours of flight experience) is required.
- Additional licences or endorsements to fly different types of aircraft are required.
- Flight engineers require a flight engineer licence issued by Transport Canada.
- Structured training is provided by employers.

Flight instructors

- Completion of secondary school and graduation from a certified flying or aviation school are required.
- A university degree or college diploma may be required.
- A commercial pilot's or an air transport pilot's licence is required.
- Transport Canada ratings and endorsements to provide instructions on different types of aircraft are required.

Additional information

- Flight engineers may progress to co-pilot and pilot positions with required hours of flying experience and completion of licensing and endorsement requirements.

72601 Air traffic controllers and related occupations

Air traffic controllers direct air traffic within assigned airspace, and control moving aircraft and service vehicles at airports. Flight service specialists provide pilots with flight information essential to aviation safety. Flight dispatchers authorize airline flights over assigned routes. Air traffic controllers and flight service specialists are employed by NAV Canada and the Canadian Forces. Flight dispatchers are employed by airline and air services companies and by the Canadian Forces.

Illustrative example(s)

- air traffic controller (ATC)
- airport air traffic controller
- enroute air traffic controller
- flight dispatcher
- flight service specialist (FSS)
- instrument flight rules air traffic controller
- terminal air traffic controller
- visual flight rules air traffic controller

Exclusion(s)

- Railway traffic controllers and marine traffic regulators (72604)

Main duties

This group performs some or all of the following duties:

Air traffic controllers

- Control flow of air traffic within assigned airspace using radar monitors, radio and other communication equipment and visual references
- Issue aircraft takeoff and landing instructions to pilots and relay meteorological, navigational and other information to pilots in flight
- Maintain radio and telephone contact with adjacent control towers, terminal control units and other area control centres, and coordinate movement of aircraft into adjoining areas
- Alert airport emergency services when aircraft are experiencing difficulties and report missing aircraft to search and rescue services
- Direct activities of all moving aircraft and service vehicles on or near airport runways.

Flight service specialists

- Provide pre-flight information concerning current and forecast weather conditions, radio frequencies, terrain, airports and related data to assist pilots in preparation of flight plans
- Check flight plans for completeness and accuracy and forward flight plans to air traffic services facility
- Respond to radio calls from aircraft preparing for takeoff or landing and supply information such as weather conditions, wind speed and direction and presence of local air traffic
- Support air traffic control operations by relaying radio requests for flight clearances, arrival and departure information and position reports
- Alert airport emergency services of aircraft experiencing difficulties and initiate communication searches when aircraft become overdue
- Observe, record and report weather conditions at airports.

Flight dispatchers

- Analyze environmental conditions and assess aircraft for load and fuel capacity and other factors to determine flight routes
- Brief flight crew before takeoff on weather conditions, status of navigational facilities and airports while on route
- Co-sign flight authorization with aircraft captain
- Monitor progress of flight and communicate as required with aircraft during flight
- Delay or cancel flights if conditions warrant
- Prepare and maintain flight plans, flight logs and other reports.

Employment requirements

- Completion of secondary school is required.
- A basic radio telephone operator's licence is required.
- Air traffic controllers and flight service specialists require completion of a NAV Canada training program which includes structured in-class and on-the-job training.

- Air traffic controllers require an air traffic controller's licence.
- Flight dispatchers may require experience in air traffic control or flight operations and may require a private pilot's licence.

Additional information

- Air traffic controllers with experience and appropriate NAV Canada endorsements may move to units with higher volumes of air traffic.

72602 Deck officers, water transport

Deck officers, water transport, operate and command ships or self-propelled vessels to transport passengers and cargo on oceans and coastal and inland waters, and supervise and coordinate the activities of deck crews. This unit group also includes Canadian Coast Guard deck officers. They are employed by marine transportation companies and federal government departments. Apprentices are also included in this unit group.

Illustrative example(s)

- Coast Guard vessel first watchkeeping officer
- Coast Guard vessel navigation officer
- Coast Guard vessel watchkeeping officer
- deck officer - water transport
- ferryboat master
- master mariner
- ship pilot
- ship second mate
- ship third mate
- ship's captain
- ship's mate
- tugboat captain

Exclusion(s)

- Engineer officers, water transport (72603)
- Fishing masters and officers (83120)
- Shore captain - water transport (See 70020-Managers in transportation)
- Water transport deck and engine room crew (74201)

Main duties

This group performs some or all of the following duties:

- Command and operate ships or other self-propelled vessels, such as barges or oil rigs, to transport passengers and cargo
- Command and operate coast guard vessels to provide ice-breaking and search and rescue services, and to maintain control over ships operating in Canadian waters
- Board vessels at berth or from pilot boats to advise ships' captains on the course to steer for safe passage into and out of ports, seaways or other waterways under pilotage authority
- Plan and execute safe navigational passage using navigational aids
- Determine geographical position using navigational instruments, maps and charts
- Guide vessels in rivers, canals, and other confined or hazardous waters and waterways

- Maintain vessels' navigational instruments and equipment
- Direct and oversee the loading and unloading of cargo
- Supervise and coordinate the activities of deck crews
- Record vessel progress, crew activities, weather and sea conditions in the ship's log.

Employment requirements

- Completion of secondary school is required.
- Completion of deck officer cadet program from an approved nautical institute or
One to three years of experience as a member of a deck crew is required.
- A deck officer certificate of competency, issued by Transport Canada, is required.
- For ship pilots, a ship pilot licence and a master certificate of competency are required.

Additional information

- Transport Canada administers a deck officer certification program, consisting of several levels. Progression from one level of certification to the next requires additional experience, training and testing.
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.

72603 Engineer officers, water transport

Engineer officers in water transport, operate and maintain main engines, machinery and auxiliary equipment aboard ships and other self-propelled vessels, and supervise and coordinate the activities of engine room crews. They are employed by marine transportation companies and federal government departments. Apprentices are also included in this unit group.

Illustrative example(s)

- chief engineer - water transport
- engineer officer - water transport
- fourth engineer - water transport
- marine engineer officer
- second engineer
- third engineer - water transport
- tugboat engineer

Exclusion(s)

- Deck officers, water transport (72602)
- Managers in transportation (70020)
- Marine engineer AND naval engineer (See 21399-Other professional engineers)
- Marine mechanical engineer (See 21301-Mechanical engineers)
- Water transport deck and engine room crew (74201)

Main duties

This group performs some or all of the following duties:

- Operate main engines, machinery and all auxiliary equipment aboard ships, such as boilers, steering and deck machinery, motors, pumps, generators and condensers
- Stand engine room watch, monitoring and noting performance of engines, machinery and all auxiliary equipment
- Inspect and conduct maintenance and emergency repairs to engines, machinery and all auxiliary equipment
- Supervise and coordinate the activities of the engine room crew
- Maintain records and prepare reports on engine performance and failures.

Employment requirements

- Completion of secondary school is required.
- Completion of a three-year cadet program in marine engineering from an approved marine training institute or
Approximately three years of experience as an engine room crew member and six months of formal training at an approved marine training institute
or
Approximately three years of experience as an engine mechanic and six months of experience as an engine room crew member are required for certification as a fourth class marine engineer.
- A marine engineer officer certificate of competency, issued by Transport Canada, is required.

Additional information

- Fourth class marine engineer certificate is the entry level of a four-level certification program administered by Transport Canada. Progression from one level of certification to the next requires additional experience, training and testing.
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.

72604 Railway traffic controllers and marine traffic regulators

Railway traffic controllers coordinate passenger and freight train traffic on railways. They are employed by rail transport companies. Marine traffic regulators monitor and regulate coastal and inland marine traffic within assigned waterways. They are employed by port, harbour, canal and lock authorities and by the Canadian Coast Guard.

Illustrative example(s)

- chief rail traffic controller
- marine traffic regulator
- rail traffic controller
- train operator

Exclusion(s)

- Harbour master (See 70012-Facility operation and maintenance managers)
- Subway traffic controller (See 72024-Supervisors, motor transport and other ground transit operators)
- Supervisors, railway transport operations (72023)

Main duties

This group performs some or all of the following duties:

Railway traffic controllers

- Operate and monitor centralized traffic control systems to coordinate and follow railway traffic
- Chart train movements, calculate arrival and departure times and record rail traffic information
- Issue instructions to control the movement of passenger and freight train traffic and on-track mobile maintenance equipment
- Receive, record and relay train instructions to train crew by hand or radio telephone
- May supervise and train other railway traffic controllers.

Marine traffic regulators

- Direct and monitor vessel movements using radar or closed circuit monitors, remote radio systems and other telecommunication equipment
- Obtain position, course, speed and estimated arrival time of vessels and monitor vessel progress through traffic zone
- Issue clearance instructions to vessels, advise vessels of traffic volumes and weather conditions, and relay information to next marine traffic control sector
- Report accidents, distress signals, navigational hazards and other emergencies to authorities
- Maintain radio and telephone contact with adjacent marine control sectors and with vessels within area of jurisdiction
- Maintain log of vessel movements, size and structure.

Employment requirements

- Railway traffic controllers usually require completion of secondary school and several years of experience in the railway industry.
- Up to 35 weeks of a combination of classroom and on-the-job training is provided for railway traffic controllers.
- Railway traffic controllers require a Canadian Rail Operating Rules certificate.
- Marine traffic regulators require completion of secondary school and several months of formal traffic regulator training.

Additional information

- There is little mobility between traffic controlling occupations in the railway and marine sectors.
- With experience, railway traffic controllers may progress to supervisory positions in rail transport operations.

729 Other technical trades

This sub-major group comprises other technical trades and related occupations.

7299 Other technical trades

This minor group comprises other technical trades and related occupations. They are employed by a wide range of establishments, or they may be self-employed.

72999 Other technical trades and related occupations

Workers in other trades occupations repair, service, install, calibrate or fabricate a variety of products. This unit group also includes commercial divers. They are employed by a wide range of establishments, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- aircraft patternmaker
- blacksmith
- commercial diver
- die setter
- explosive ordnance detector
- farrier
- gunsmith
- locksmith
- reclamation diver
- restoration steeplejack
- safe maker
- saw fitter
- small arms repairer
- toolsmith
- underwater contractor
- vault repairer

Exclusion(s)

- Automotive service technicians (7241)
- Motorcycle, all-terrain vehicle and other related mechanics (72423)
- Other small engine and small equipment repairers (72429)
- Police diver (See 42100-Police officers (except commissioned))
- Welders and related machine operators (72106)

Main duties

This group performs some or all of the following duties:

Gunsmiths

- Fabricate guns and repair and modify firearms according to blueprints or customers' specifications.

Locksmiths

- Repair, install and adjust locks, make keys and change lock combinations.

Safe and vault servicers

- Install, repair and maintain safes and vaults in banks and other establishments.

Saw fitters

- Repair, set and sharpen band saws, chain saws, circular saws and other types of saw blades according to specifications.

Die setters

- Select dies for forging according to work order and specifications; position align and bolt dies to ram and anvil of power presses and hammers.

Commercial divers

- Perform underwater activities related to construction, inspection, search, salvage, repair and photography.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to four-year apprenticeship program in a relevant trade, such as locksmith or saw fitter or college, high school or industry courses combined with several years of related work experience or several years of on-the-job training are required.
- Trade certification for locksmiths is available, but voluntary, in Nova Scotia, New Brunswick, Saskatchewan, Alberta, British Columbia, the Northwest Territories and Nunavut.
- Sawfiler/fitter and sawfitter trade certification is available, but voluntary, in Quebec, British Columbia and the Yukon.
- Provincial trade certification or licensing may be required for other occupations in this unit group.
- Commercial divers must meet the requirements of CSA Standard Z275.4-02, Competency Standard for Diving Operations.
- Commercial divers require an Occupational Diver Certificate of Competency issued by the Diver Certification Board of Canada (DCBC) or qualification earned through a formal education program, training courses in diving or a combination of education and practical experience.
- Commercial divers require certification of competency and a diving medical examination from an approved hyperbaric physician.
- Commercial divers may require military or police diving experience.
- Commercial divers usually require a provincial blaster's licence for the setting and detonation of explosives.

Additional information

- There is little or no mobility among occupations in this unit group.
- Progression to supervisory positions is possible with experience.

73 General trades

This major group comprises general trades. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

731 General construction trades

This sub-major group comprises general construction trades, including concrete finishers, tilers and plasterers, as well as roofers, glaziers, painters, decorators and floor covering installers.

7310 Concrete finishers, tilers and plasterers

This minor group comprises concrete finishers, tilers, and plasterers, drywall installers and finishers and lathers. They are employed by construction companies; cement, concrete, masonry, plastering, drywalling and lathing contractors; and manufacturers of precast concrete products; or they may be self-employed.

73100 Concrete finishers

Concrete finishers smooth and finish freshly poured concrete, apply curing or surface treatments and install, maintain and restore various masonry structures such as foundations, floors, ceilings, sidewalks, roads, patios and high-rise buildings. They are employed by construction companies, cement and concrete contractors and manufacturers of precast concrete products, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- cement finisher apprentice
- cement mason
- concrete finisher
- concrete mason
- precast concrete finisher

Exclusion(s)

- Bricklayers (72320)
- Concrete, clay and stone forming operators (94103)
- Contractors and supervisors, other construction trades, installers, repairers and servicers (72014)

Main duties

This group performs some or all of the following duties:

- Check formwork, granular base and steel reinforcement materials and direct placement of concrete into forms or onto surfaces according to grade
- Fill hollows and remove high spots to smooth freshly poured concrete
- Operate power vibrator to compact concrete
- Level top surface of concrete according to grade and depth specifications using straightedge or float
- Impart desired finish to concrete surfaces using hand and power tools
- Install anchor bolts, steel plates, door sills and other fixtures in freshly poured concrete
- Apply hardening and sealing compounds to cure surface of concrete
- Waterproof, damp-proof and restore concrete surfaces
- Repair, resurface and replace worn or damaged sections of floors, walls, roads and other concrete structures.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to four-year apprenticeship program
or
Over three years of work experience in the trade and some high school, college or industry courses in cement finishing are usually required to be eligible for trade certification.

- Trade certification for concrete finishers is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Alberta and British Columbia.
- Trade certification for cement masons is available, but voluntary, in Ontario.
- Red Seal endorsement is also available to qualified concrete finishers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

73101 Tilersetters

Tilersetters cover interior and exterior walls, floors and ceilings with ceramic, marble and quarry tile, mosaics or terrazzo. They are employed by construction companies and masonry contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice tilersetter
- ceramic tile installer
- marble setter
- terrazzo polisher
- terrazzo worker
- tile installer
- tilersetter

Exclusion(s)

- Bricklayers (72320)
- Plasterers, drywall installers and finishers and lathers (73102)
- Tilersetters supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

- Prepare, measure and mark surface to be covered
- Build underbeds and install anchor bolts, wires and brackets
- Mix, apply and spread mortar, cement, mastic, glue or other adhesives using hand trowel
- Set tiles in position and apply pressure to affix tiles to base
- Align and straighten tile using levels, squares and straightedges
- Cut and fit tiles around obstacles and openings using hand and power cutting tools
- Pack grout into joints between tiles and remove excess grout
- Install tile strips
- Lay and set mosaic tiles to create decorative wall, mural and floor designs
- Mix, lay and polish terra surfaces
- Cut, polish and install marble and granite

- Remove and replace cracked or damaged tiles
- May prepare cost estimates and orders.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program
or
A combination of over three years of work experience in the trade and some high school, college or industry courses in tiling is usually required to be eligible for trade certification.
- Trade certification for tilers is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan, Alberta and British Columbia.
- Red Seal endorsement is also available to qualified tilers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

73102 Plasterers, drywall installers and finishers and lathers

Plasterers apply finish, and maintain and restore plaster or similar materials, on interior and exterior walls, ceilings and building partitions to produce plain or decorative surfaces. Drywall installers and finishers install and finish drywall sheets and various types of ceiling systems. Lathers install support framework for ceiling systems, interior and exterior walls and building partitions. They are employed by construction companies and by plastering, drywalling and lathing contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- acoustical ceiling installer
- ceiling installer
- drywall applicator
- drywall finisher
- drywall installer and finisher apprentice
- drywall taper
- lather
- lather (interior systems mechanic)
- lather apprentice
- plasterer
- plasterer apprentice
- sheetrock applicator
- wood lather

Exclusion(s)

- Contractors and supervisors, other construction trades, installers, repairers and servicers (72014)

Main duties

This group performs some or all of the following duties:

Plasterers

- Clean and prepare surfaces
- Mix plaster ingredients in trough to desired consistency
- Apply, level and smooth coats of plaster using trowels, floats, brushes and spraying equipment
- Trowel or spray coats of stucco over exteriors of buildings to form weatherproof surfaces
- Finish corners and angles and create decorative designs in finish coat, if required
- Cure freshly plastered surfaces
- Mould and install ornamental plaster panels, cornices and trim
- Spray acoustic materials or texture finish over walls and ceilings.

Drywall installers and finishers

- Measure, cut and fit drywall sheets for installation on walls and ceilings
- Position and secure sheets to metal or wooden studs or joists
- Cut and install metal corner beads to protect exterior corners
- Fill joints, nail indentations, holes and cracks with joint compound using trowel and broad knife
- Tape over joints using taping machine and embed tape in compound
- Smooth out excess compound and allow coat to dry
- Apply successive coats of compound and sand seams and joints
- Fabricate and install suspended metal ceiling grids and place in panels to form acoustical and coffered ceilings.

Lathers

- Prepare wall and ceiling layouts
- Install metal stud framing and furring for interior drywall or plaster walls and ceilings, using hand and power tools
- Attach metal or gypsum lath to studs or furring using nails, screws, clips or wire ties
- Cut openings in lath for heating and ventilation piping, ducts and electrical outlets
- Install corner beads and wire mesh around beams to which plaster is to be applied
- May install acoustic tile, hangers for suspended ceilings and metal studs for composition wallboard or lath.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program in plastering, drywalling or lathing or
A combination of over three years of work experience and some high school, college or industry courses in plastering, drywalling or lathing is usually required.
- Plasterer trade certification is compulsory in Quebec and available, but voluntary, in Ontario, Saskatchewan and British Columbia.
- Drywall installer and finisher trade certification is available, but voluntary, in British Columbia.

- Trade certification for lathers (interior systems mechanics) is compulsory in Quebec and available, but voluntary, in all other provinces and the Yukon.
- Red Seal endorsement is also available to qualified lathers (interior systems mechanic) upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

7311 Roofers, glaziers, painters, decorators and floor covering installers

This minor group comprises roofers, shinglers, glaziers, painters, decorators (except interior decorators) and floor covering installers. They are employed by construction companies; roofing and general contractors; construction glass installation contractors and glass fabrication, retail service and repair shops; insulation and floor covering contractors and carpet outlets; and painting and building maintenance contractors; or they may be self-employed.

73110 Roofers and shinglers

Roofers install, repair or replace flat roofs as well as shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice roofer
- asphalt roofer
- built-up roofer
- flat roofer
- residential steep roofer
- roofer
- shingler
- single-ply roofer

Exclusion(s)

- Roofers and shinglers supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

Roofers

- Install, repair or replace built-up roofing systems using materials such as asphalt saturated felts and hot asphalt and gravel
- Install, repair or replace single-ply roofing system using waterproof sheet materials such as modified plastics, elastomeric or other asphaltic compositions
- Install, repair or replace shingles, shakes and other roofing tiles on sloped roofs of buildings
- Install sheet metal flashings
- Apply waterproof coatings to concrete or other masonry surfaces below or above ground level

- Install and repair metal roofs using hand and power tools
- Set up scaffolding to provide safe access to roofs
- May estimate materials required and quote costs.

Shinglers

- Install or replace asphalt shingles, wood shingles and shakes and masonry or baked clay roofing tiles on sloped roofs of buildings
- Set up scaffolding to provide safe access to roofs.

Employment requirements

- Completion of secondary school is usually required.
- For roofers, completion of a two- to three-year apprenticeship program or Over three years of work experience in the trade are usually required to be eligible for trade certification.
- Roofing trade certification is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.
- Trade certification for residential steep roofers is available, but voluntary, in British Columbia.
- Red Seal endorsement is also available to qualified roofers upon successful completion of the interprovincial Red Seal examination.
- Shinglers require one to two years of on-the-job training.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

73111 Glaziers

Glaziers cut, fit, install and replace glass in residential, commercial and industrial buildings, on exterior walls of buildings and other structures and in furniture and other products. They are employed by construction glass installation contractors, retail service and repair shops and glass fabrication shops, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- glazier
- glazier and metal mechanic
- glazier apprentice
- plate glass installer
- stained glass glazier
- structural glass glazier

Exclusion(s)

- Glass forming and finishing machine operators and glass cutters (94102)
- Glazier supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

- Read and interpret blueprints and specifications to determine type and thickness of glass, frame, installation procedure and materials required
- Measure and mark glass and cut glass using glass cutters or computerized cutter
- Tint glass and create patterns on glass by etching, sandblasting or painting designs
- Assemble, erect and dismantle scaffolds, rigging and hoisting equipment
- Position glass panes into frames and secure glass using clips, points or mouldings
- Assemble and install prefabricated glass, mirrors or glass products on walls, ceilings or exteriors of building
- Fabricate metal frames for glass installation
- Install, fit, fabricate and attach architectural metals or related substitute products in commercial and residential buildings
- Install pre-cut mirrors and opaque and transparent glass panels in frames to form exterior walls of buildings
- Replace glass in furniture and other products
- Prepare and install skylights, showcases and aquariums and stained or other special glass in churches, museums, sports and other establishments
- Repair and service residential windows, commercial aluminum doors and other glass supporting structures, and replace damaged glass or faulty sealant
- May prepare cost estimates for customers or clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- or four-year apprenticeship program
or
A combination of over four years of work experience in the trade and some high school, college or industry courses in glazing is usually required to be eligible for trade certification.
- Trade certification for glaziers is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.
- Red Seal endorsement is also available to qualified glaziers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

73112 Painters and decorators (except interior decorators)

Painters and decorators apply paint, wallpaper and other finishes to interior and exterior surfaces of buildings and other structures. They are employed by construction companies, painting contractors and building maintenance contractors, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- construction painter
- maintenance painter
- painter
- painter and decorator

- painter and decorator apprentice
- paperhanger

Exclusion(s)

- Automotive painter - motor vehicle repair (See 72411-Auto body collision, refinishing and glass technicians and damage repair estimators)
- Industrial painters, coaters and metal finishing process operators (94213)
- Interior decorator (See 52121-Interior designers and interior decorators)
- Painters and decorators supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Painters, sculptors and other visual artists (53122)

Main duties

This group performs some or all of the following duties:

- Read specifications to determine quantities of materials required
- Prepare and clean surfaces using methods such as scraping, sanding, sandblasting, hydro-blasting and steam-cleaning; remove old wallpaper and loose paint; repair cracks and holes in walls; and sandpaper and apply sealer
- Mix and thin paint to obtain desired colour and texture
- Apply paint or other materials, such as stains, lacquer, enamel, oil, varnish, fibreglass, metal coating or fire retardant using brushes, rollers or spray equipment
- Measure, cut and apply wallpaper or fabric to walls
- Assemble and erect scaffolding and swing stages
- May advise customer on selection of colour schemes and choice of wall coverings
- May provide cost estimates to clients.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a three- to four-year apprenticeship program
or
Over three years of work experience in the trade is usually required to be eligible for trade certification.
- Trade certification for painters and decorators is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.
- Red Seal endorsement is also available to qualified painters and decorators upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

73113 Floor covering installers

Floor covering installers install carpet, wood, linoleum, vinyl and other resilient floor coverings in residential, commercial, industrial and institutional buildings. They are employed by construction companies, floor-covering contractors and carpet outlets, or they may be self-employed. Apprentices are also included in this unit group.

Illustrative example(s)

- carpet layer
- floor covering installer apprentice
- floor covering mechanic
- hardwood floor layer
- residential floor and wall covering installer
- resilient floor installer
- vinyl floor installer

Exclusion(s)

- Floor covering supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

- Inspect, measure and mark surfaces to be covered
- Measure, cut and fasten underlay and underpadding
- Measure, cut and install carpeting using hand or machine stitcher, seaming iron, bonding tape or other bonding materials
- Stretch carpeting using knee-kicker or power stretcher and secure carpeting to floor or other surfaces using staple gun or other devices
- Measure, cut and install resilient floor covering using adhesive, rollers and other hand tools
- Install hardwood floors, such as strip floors, block floors or plank floors, using glue, staples, nails or other means
- Inspect and repair damaged floor coverings
- May estimate material and labour costs.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a two- to three-year apprenticeship program
or
Over four years of work experience in the trade and some courses in floor covering installation are usually required to be eligible for trade certification.
- Trade certification for floor covering installers is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified floor covering installers upon successful completion of the interprovincial Red Seal examination.

Additional information

- The Red Seal endorsement allows for interprovincial mobility.
- Progression to supervisory positions is possible with experience.

732 Building maintenance installers, servicers and repairers

This sub-major group comprises building maintenance installers, servicers and repairers, including residential and commercial installers and servicers; general building maintenance workers and building superintendents; pest controllers and fumigators; and other repairers and servicers.

7320 Building maintenance installers, servicers and repairers

This minor group comprises building maintenance installers, servicers and repairers, including residential and commercial installers and servicers; general building maintenance workers and building superintendents; pest controllers and fumigators; and other repairers and servicers. They are employed by companies specializing in specific product installation and service; water filtration and distribution plants and waste treatment plants; gas distribution companies; pest control companies; and product specialty repair shops and service establishments; or they may be self-employed.

73200 Residential and commercial installers and servicers

Residential and commercial installers and servicers install and service a wide variety of interior and exterior prefabricated products such as windows, doors, electrical appliances, water heaters, fences, play structures and septic and irrigation systems at residential, commercial or institutional properties. They are employed by companies specializing in specific product installation and service.

Illustrative example(s)

- aluminum window installer
- eavestrough installer
- electric appliance installer
- exterior cladder
- fence erector
- hot tub installer
- irrigation technician - installation and maintenance
- kitchen cupboard and vanity installer
- recreation structure erector
- siding installer
- sign installer
- swimming pool installer
- water conditioner servicer
- water heater servicer
- window installer

Exclusion(s)

- Appliance servicers and repairers (72421)
- Central air conditioner installer (See 72402-Heating, refrigeration and air conditioning mechanics)
- Floor covering supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Steamfitters, pipefitters and sprinkler system installers (72301)

Main duties

This group performs some or all of the following duties:

- Read blueprints or work order specifications to determine layout and installation procedures
- Measure and mark guidelines to be used for installations
- Install, repair and service interior prefabricated products such as doors, windows, kitchen cupboards, bathroom vanities, water heaters and household appliances using hand and power tools
- Install, repair and service exterior prefabricated products such as siding, shutters, awnings, fencing, decks, septic and irrigation systems, signs and play structures using hand and power tools.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training and several months of related installing, repairing or servicing experience are usually required.
- A driver's licence may be required.

Additional information

- There is some mobility among the various types of installers and servicers in this unit group.

73201 General building maintenance workers and building superintendents

General building maintenance workers perform tasks related to the general maintenance of buildings. They execute minor repair work, maintain equipment and installations and perform preventive inspection of systems relating to building mechanics. Building superintendents employed in large establishments are responsible for the operation of the establishment and may also supervise other workers. They are employed by office and apartment building management companies, condominium corporations, educational institutions, health care facilities, recreational and shopping facilities, religious, industrial and other establishments.

Illustrative example(s)

- apartment building maintenance worker
- building operator - maintenance
- building superintendent

Exclusion(s)

- Janitors, caretakers and heavy-duty cleaners (65312)
- Other repairers and servicers (73209)
- Residential and commercial installers and servicers (73200)

Main duties

This group performs some or all of the following duties:

- Make adjustments and minor repairs to heating, cooling, ventilating, plumbing and electrical systems, and contact tradespersons for major repairs
- Perform other routine maintenance jobs such as painting and drywall repair
- Maintain inventory of supplies and equipment and make minor purchases as required
- Respond to requests from residents for minor repairs
- Perform daily inspections on the building systems

- Provide general assistance to skilled trade persons such as mechanics, electricians, carpenters and plumbers
- Coordinate the preparation of housing units prior to the arrival of new residents
- Ensure that security and safety measures are in place in the establishment
- May advertise vacancies, show apartments and offices to prospective tenants and collect rent
- May process lease or rental applications, including completion of background and credit checks
- May move heavy furniture, equipment and supplies
- May supervise other workers.

Employment requirements

- Secondary school education is usually required.
- Previous maintenance experience may be required.
- A journeyman/woman certificate in one or more of the trades or a building operator certificate may be required for building superintendents.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

73202 Pest controllers and fumigators

Pest controllers and fumigators inspect buildings and outside areas for pest infestation and spray chemical treatments to kill noxious and destructive insects, rodents and other pests or set cage traps to capture and remove animals. They are employed by pest control companies, or they may be self-employed.

Illustrative example(s)

- animal control trapper
- pest control operator
- pest control service representative
- pest control technician
- pest controller
- pest exterminator
- pest fumigator

Exclusion(s)

- Pest control supervisor (See 72014-Contractors and supervisors, other construction trades, installers, repairers and servicers)

Main duties

This group performs some or all of the following duties:

- Inspect buildings and outside areas at regular intervals or at specific request of property owner to detect signs of infestation
- Determine type of treatment required and provide estimate of costs to clients
- Prepare and spray chemical mixture on infested areas using mechanical or electric sprayer to kill insects, rodents and other pests

- Fumigate households
- Place and set traps to capture and remove animals, such as skunks or raccoons
- Install animal control barriers such as needle strips, netting and other devices to keep animals off property
- Clean out areas that harbour pests using rakes, shovels, brooms or mops
- Advise clients on how to prevent pest infestation.

Employment requirements

- Completion of secondary school is usually required.
- Completion of courses in pest control or extermination or several months of on-the-job training are usually required.
- Provincial pesticide applicator licence is required in all provinces.

Additional information

- Progression to supervisory positions is possible with experience.

73209 Other repairers and servicers

Other repairers and servicers repair and service a wide variety of products, such as cameras, scales, musical instruments, coin machines, vending machines, sporting goods and other miscellaneous products and equipment. They are employed by product specialty repair shops and service establishments.

Illustrative example(s)

- bicycle repairer
- camera repairer
- meter repairer
- piano repairer
- scale repairer
- sewing machine servicer - domestic
- sporting goods repairer
- vending machine repairer

Exclusion(s)

- Contractors and supervisors, other construction trades, installers, repairers and servicers (72014)
- Locksmith (See 72999-Other technical trades and related occupations)

Main duties

This group performs some or all of the following duties:

- Inspect products to determine the requirement for repair
- Repair or replace defective or worn-out parts and components using hand, power or specially designed tools
- Test and adjust repaired products for proper functioning
- Perform routine maintenance
- May calibrate products using hand tools.

Employment requirements

- Some secondary school education is usually required.
- Completion of college or other courses relevant to a particular equipment or product repair or
Completion of several months of on-the-job training is usually required.

Additional information

- Some mobility may occur among workers in this unit group.
- Progression to supervisory positions is possible with experience.

733 Transportation occupations

This sub-major group comprises transportation occupations, including transport truck and transit drivers, and train crew operating occupations.

7330 Transport truck and transit drivers

This minor group comprises transport truck and transit drivers, including bus drivers, subway operators and other transit operators. They are employed by transportation, manufacturing, distribution and moving companies and trucking employment service agencies; urban transit systems, light rail transit operators and transportation authorities; school boards and private transportation companies; or they may be self-employed.

73300 Transport truck drivers

Transport truck drivers drive straight trucks or tractor-trailers to transport freight. Long-haul truck drivers operate heavy trucks over urban, interurban, provincial and international routes, while short-haul and local transport truck drivers operate over urban and short interurban routes. They are employed by transportation, manufacturing, distribution and moving companies, and trucking employment service agencies, or they may be self-employed.

Illustrative example(s)

- bulk goods truck driver
- dump truck driver
- flatbed truck driver
- heavy truck driver
- logging truck driver
- long haul truck driver
- moving van driver
- shunt truck driver
- tow truck driver
- tractor-trailer truck driver
- transport driver
- truck driver

Exclusion(s)

- Delivery service drivers and door-to-door distributors (75201)
- Public works maintenance equipment operators and related workers (74205)
- Supervisors, motor transport and other ground transit operators (72024)

- Truck dispatcher (See 14404-Dispatchers)
- Truck driver helper (See 75211-Railway and motor transport labourers)
- Truck driver trainer - community college (See 41210-College and other vocational instructors)

Main duties

This group performs some or all of the following duties:

Long-haul transport truck drivers

- Operate and drive primarily tractor-trailer, long-combination vehicle and straight-body trucks weighing over 4500 kg to transport goods and materials over long distances
- Plan trip logistics and obtain required documentation to transport goods
- Perform pre-trip, en route and post-trip inspection of vehicle systems, equipment and accessories such as tires, lights and turning signals, brakes and cold storage
- Ensure cargo is secured properly in accordance with safety requirements and follow safety procedures for transporting dangerous goods
- Obtain special permits and other documents required to transport cargo on international routes
- Record cargo information, hours of service, distance travelled and fuel consumption
- Administer bills of lading and manually or electronically maintain log books
- Communicate with dispatcher, other drivers and customers using communication devices and on-board computers
- May perform emergency roadside repairs
- May drive as part of a two-person team or convoy
- May transport hazardous products or dangerous goods.

Short-haul and local transport truck drivers

- Operate and drive primarily straight trucks to transport goods and materials mainly on local routes and short interurban routes
- Perform pre-trip, en route and post-trip inspection and oversee all aspects of vehicle such as condition of equipment, and loading and unloading of cargo
- May drive special purpose trucks such as tow trucks, dump trucks, hydrovac trucks or cement mixing trucks.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job-training is provided.
- Completion of an accredited driver training course of up to three months duration, through a vocational school or community college, may be required.
- A Class 3 or D licence is required to drive straight-body trucks.
- A Class 1 or A licence is required to drive long combination vehicles.
- Air brake endorsement (Z) is required for drivers who operate vehicles equipped with air brakes.
- Transportation of dangerous goods (TDG) certification is required for drivers who transport hazardous products or dangerous goods.
- Additional licensing endorsement or certification may be required to drive articulated trucks.

Additional information

- Progression to supervisory positions or to non-driving occupations, such as driver trainer, safety officer or truck dispatcher is possible with additional training or experience.

73301 Bus drivers, subway operators and other transit operators

Bus drivers, subway operators and other transit operators drive buses and operate streetcars, subway trains and light rail transit vehicles to transport passengers on established routes. Bus drivers are employed by urban transit systems, school boards or transportation authorities and private transportation companies. Streetcar, subway and light rail transit operators are employed by urban transit systems.

Illustrative example(s)

- bus driver
- bus operator
- light rail transit operator
- motor coach driver
- public passenger transit driver
- school bus driver
- sightseeing tour driver
- streetcar operator
- subway train operator
- transit operator - transportation

Exclusion(s)

- Supervisors, motor transport and other ground transit operators (72024)

Main duties

This group performs some or all of the following duties:

Bus drivers and streetcar operators

- Drive buses or streetcars to transport passengers along established routes to local destinations
- Drive buses to transport passengers and goods to intercity or long distance destinations
- Drive sightseeing tour buses to transport passengers locally or over long distances
- Drive buses equipped for wheelchair accessibility, and aid passengers in boarding
- Provide passengers with information on fares, schedules and stops
- Collect fares, issue and validate transfers, check bus passes and record transactions
- Conduct pre-trip and post-trip inspections of vehicle
- Communicate with passengers, dispatchers or other drivers using two-way radio systems
- Report delays, mechanical problems and accidents
- May provide information on points of interest during sightseeing tours
- May load and unload passengers' luggage and express freight.

School bus drivers

- Drive school buses to transport children between school and home or on excursions
- Ensure children's safety when boarding and leaving buses and crossing street while bus is stopped

- Maintain control of student activities during travel to prevent distractions or behaviours that could compromise safety
- May transport adults outside of school hours on chartered trips.

Subway train and light rail transit operators

- Operate subway or rail transit vehicles as part of two-person crew
- Observe signals at crossings and arrival and departure points
- Operate controls to open and close transit vehicle doors
- Report delays, malfunctions and accidents to control unit
- Ensure passenger safety and welfare in emergencies, and direct passengers during evacuation procedures.

Employment requirements

- Completion of secondary school is usually required.
- Up to three months of on-the-job training, including classroom instruction, is usually provided for all occupations in this unit group.
- A minimum of one year of safe driving experience is required.
- Bus drivers require a Class B, C, E or F driver's licence in Ontario, and a Class 2 driver's licence is required in all other provinces and the territories.
- An air brakes endorsement and first aid certificate may be required.
- Experience as a public transit bus driver is usually required for subway and light rail transit operators.

Additional information

- Progression to transit supervisory positions, inspector or training instructor positions is possible with experience.

7331 Train crew operating occupations

This minor group comprises train crew operating occupations, including railway and yard locomotive engineers, and railway conductors and brakemen/women. They are employed by railway transport companies and industrial and commercial users of rail transport.

73310 Railway and yard locomotive engineers

Railway locomotive engineers operate railway locomotives to transport passengers and freight. They are employed by railway transport companies. Yard locomotive engineers operate locomotives within yards of railway, industrial or other establishments. They are employed by railway transport companies and industrial or commercial users of rail transport.

Illustrative example(s)

- locomotive engineer - railway
- railway engineer
- switch engineer - railway
- transfer hostler - railway
- yard engineer - railway

Exclusion(s)

- Light rail transit operator (See 73301-Bus drivers, subway operators and other transit operators)
- Subway train operator (See 73301-Bus drivers, subway operators and other transit operators)
- Supervisors, railway transport operations (72023)
- Train dispatcher (See 72604-Railway traffic controllers and marine traffic regulators)

Main duties

This group performs some or all of the following duties:

Railway locomotive engineers

- Operate locomotives to transport passengers and freight on railways
- Operate communication systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains
- Inspect assigned locomotives and test operating controls and equipment.

Yard locomotive engineers

- Operate locomotives to switch, couple and uncouple cars for loading and unloading
- Perform switching operations according to written switching orders or dispatched instructions
- Inspect locomotives, replenish fuel or perform routine maintenance on locomotives.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a conductor is required for railway locomotive engineers and may be required for yard locomotive engineers.
- Experience as a railway yard worker may be required for yard locomotive engineers.
- Railway locomotive engineers require a Canadian Rail Operating Rules certificate.

Additional information

- Mobility between railway transport companies or between establishments employing locomotive engineers may be limited due to seniority provisions of collective agreements.

73311 Railway conductors and brakemen/women

Railway conductors coordinate and supervise the activities of passenger and freight train crew members. Brakemen check train brakes and other systems and equipment prior to train run, and assist railway conductors in activities en route. They are employed by railway transport companies.

Illustrative example(s)

- brakeman/woman
- conductor - switching yard
- freight train conductor
- front-end brakeman/woman
- passenger train conductor
- railway conductor

- road freight brakeman/woman
- tail-end brakeman/woman

Exclusion(s)

- Railway and yard locomotive engineers (73310)
- Supervisors, railway transport operations (72023)

Main duties

This group performs some or all of the following duties:

Railway conductors

- Supervise and coordinate the activities of passenger and freight train crew members (except locomotive engineers) to ensure train operations are in accordance with schedule, train orders and code of operating rules
- Receive train orders and explain orders to brakemen/women, locomotive engineer and other crew members
- Communicate with train crew members by radio, signals or by other means to give and receive train operation information
- Collect fares on board passenger trains, announce approaching train stops and answer passenger enquiries
- Prepare train run reports.

Brakemen/women

- Check train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run
- Communicate with train crew members by radio, signals or by other means to aid in the movement and operation of train
- Receive orders from traffic controllers, observe signals and track conditions and open and close track switches
- Set and release hand brakes and connect air brake hoses to couple and switch passenger or freight cars, making minor repairs to couplings, air hoses and wheel-bearing boxes as required
- Assist in collecting fares and helping passengers on and off train.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a brakeman/woman is required for conductors.
- Experience as a railway worker is usually required for brakemen/women.
- Railway conductors require a Canadian Rail Operating Rules certificate.
- Brakemen/women require a Canadian Rail Operating Rules certificate.

Additional information

- With experience, brakemen/women may progress to railway conductors.
- With experience, railway conductors may progress to locomotive engineers.

734 Operators, drillers and blasters

This sub-major group comprises operators, drillers and blasters, including heavy equipment operators; printing press operators; and drillers and blasters in surface mining, quarrying and construction.

7340 Operators, drillers and blasters

This minor group comprises operators, drillers and blasters, including heavy equipment operators (except cranes); printing press operators; and drillers and blasters in surface mining, quarrying and construction. They are employed by construction companies, heavy equipment contractors and pipeline, logging, cargo-handling, mining and quarrying companies; drilling and blasting and drilling contractors (except for water wells, underground mining production, and oil and gas well drillers); municipal, provincial and federal public works departments and private contractors under contract with government public works departments; commercial printing companies; newspapers, magazines, and other publishing companies; and establishments in the public and private sectors that have in-house printing departments.

73400 Heavy equipment operators

Heavy equipment operators operate heavy equipment used in the construction and maintenance of roads, bridges, airports, gas and oil pipelines, tunnels, buildings and other structures; in surface mining and quarrying activities; and in material handling work. They are employed by construction companies, heavy equipment contractors, public works departments and pipeline, logging, cargo-handling and other companies. Apprentices are also included in this unit group.

Illustrative example(s)

- backhoe operator
- bulldozer operator
- excavator operator
- gradall operator
- grader operator
- heavy equipment operator
- heavy equipment operator apprentice
- loader operator - construction
- side boom tractor operator
- surface mining equipment operator

Inclusion(s)

- marine railway operator

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)Crane operators (72500)
- Forklift operator (See 75101-Material handlers)
- Industrial truck operator (See 75101-Material handlers)
- Logging machinery operators (83110)
- Underground production and development miners (83100)

Main duties

This group performs some or all of the following duties:

- Operate heavy equipment such as backhoes, bulldozers, loaders and graders to excavate, move, load and grade earth, rock, gravel or other materials during construction and related activities
- Operate bulldozers or other heavy equipment to clear brush and stumps prior to logging activities and to build roads at logging and surface mining sites
- Operate heavy equipment with pile driver head to drive piling into earth to provide support for buildings, bridges or other structures
- Operate heavy dredging equipment to deepen waterways or reclaim earth fill
- Operate heavy paving and surfacing equipment to lay, spread or compact concrete, asphalt and other surface materials during highway and road construction
- Operate power shovels to excavate rock, ore or other materials from open-pit mines, strip mines, quarries or construction pits
- Operate heavy equipment to move, load and unload cargo
- Conduct pre-operational checks on equipment and clean, lubricate and refill equipment.

Employment requirements

- Some secondary school education is required.
- Completion of a one- to two-year apprenticeship program or
Some high school, college or industry courses in heavy equipment operating combined with on-the-job training are required.
- Trade certification for heavy equipment operator (dozer, excavator, tractor-loader-backhoe) is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island and Ontario.
- Internal company certification may be required by some employers.
- Red Seal endorsement is also available to qualified heavy equipment operators upon successful completion of the interprovincial Red Seal examination.

Additional information

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

73401 Printing press operators

Printing press operators set up and operate sheet and web-fed presses to print text, illustrations and designs on a wide variety of materials such as paper, plastic, glass, leather and metal. They are employed by commercial printing companies; newspapers, magazines, and other publishing companies; and establishments in the public and private sectors that have in-house printing departments. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice pressman/woman
- assistant pressman/woman
- first pressman/woman
- flexographic press operator
- offset press operator

- printing press operator
- rotogravure pressman/woman - printing

Exclusion(s)

- Colour and large copier operator (See 94150-Plateless printing equipment operators)
- Laser printer operator (See 94150-Plateless printing equipment operators)
- Printing machine operator (See 94150-Plateless printing equipment operators)
- Screen printing artisan (See 53124-Artisans and craftspersons)
- Supervisors, printing and related occupations (72022)
- Textile printer (See 94130-Textile fibre and yarn, hide and pelt processing machine operators and workers)

Main duties

This group performs some or all of the following duties:

- Review job orders to determine job specifications such as production time, colour sequence and quantities required, and advise press crew of these specifications
- Mount plates or cylinders and make necessary adjustments
- Fill ink fountains and take measurements, make adjustments and determine settings to control colour and viscosity
- Set up press and check samples for ink coverage, alignment and registration
- Monitor regular press runs for quality and consistency using computer control console and make adjustments as required
- Remove and clean plates and cylinders at end of press run
- Direct activities of press crew and ensure that safety procedures are adhered to.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in printing technology
or
A combination of on-the-job training and specialized high school, college or industry courses is usually required.
- Trade certification is available, but voluntary, in Québec.

Additional information

- Progression to supervisory positions, such as pressroom supervisor, is possible with experience.

73402 Drillers and blasters - surface mining, quarrying and construction

Drillers and blasters in surface mining, quarrying and construction operate mobile drilling machines to bore blast holes in open-pit mines and quarries and to bore holes for blasting and for building foundations at construction sites. Blasters in this unit group fill blast holes with explosives and detonate explosives to dislodge coal, ore and rock or to demolish structures. They are employed by mining, quarrying and construction companies and by drilling and blasting contractors.

Illustrative example(s)

- blaster - quarrying
- blaster - surface mining

- construction driller
- driller - surface mine
- open-pit blaster
- rotary drilling machine operator

Exclusion(s)

- Blaster - underground mining (See 83100-Underground production and development miners)
- Driller - oil and gas drilling (See 83101-Oil and gas well drillers, servicers, testers and related workers)
- Driller - underground mining (See 83100-Underground production and development miners)
- Drilling and blasting foreman/woman - construction (See 72021-Contractors and supervisors, heavy equipment operator crews)
- Surface mine supervisor (See 82020-Supervisors, mining and quarrying)
- Water well drillers (72501)

Main duties

This group performs some or all of the following duties:

Drillers

- Drive and operate tracked or truck-mounted rotary drilling, air-track or other drilling machines to bore large blast holes to specified depths at staked positions in open-pit mine or quarry
- Operate drilling machines to drill blast holes in rock at road or other construction sites
- Operate tracked or truck-mounted drill equipped with auger or other attachment to drill holes for building foundations or pilings
- May measure location and stake out pattern of holes to be drilled, load blast holes with explosives and detonate explosives to dislodge coal, ore or rock.

Blasters

- Read instructions or diagrams, lay out drill pattern and determine depth and diameter of blast holes and conduct field tests to determine type and quantity of explosives required
- Assemble or direct other workers to assemble primer charges using selected detonators, fuses, detonating cords and other materials
- Load explosives in blast holes by hand or direct movement of bulk explosives trucks to load holes
- Connect electrical wires, detonating cords or fuses into series and connect series to blasting machines; press handle or button to detonate charges
- Handle, store and transport explosives and accessories in accordance with regulations and ensure that safety procedures are observed
- May operate air-track, rotary, down-the-hole or other drilling machines to drill blast holes or may direct drilling of blast holes.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Experience as a heavy equipment operator may be required for drillers.
- Experience as a blaster helper in surface mining and quarrying or construction may be required for blasters.

- Provincial blasting licence is usually required for blasters.
- Trade certification for blasters is compulsory in Nova Scotia.

Additional information

- Drillers and blasters often perform both drilling and blasting activities.
- Progression to supervisory positions is possible with experience.

74 Mail and message distribution, other transport equipment operators and related maintenance workers

This major group comprises mail and message distribution, other transport equipment operators and related maintenance workers. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

741 Mail and message distribution occupations

This sub-major group comprises mail and message distribution occupations, including mail and parcel sorters and related occupations; letter carriers; and couriers and messengers.

7410 Mail and message distribution occupations

This minor group comprises mail and message distribution occupations, including mail and parcel sorters and related occupations; letter carriers; and couriers and messengers. They are employed by Canada Post Corporation, courier and parcel express companies and establishments throughout the public and private sectors.

74100 Mail and parcel sorters and related occupations

Mail and parcel sorters and workers in related occupations process and sort mail and parcels in post offices, mail processing plants, warehouses and internal mail rooms. They are employed by Canada Post Corporation, courier and parcel express companies and establishments throughout the public and private sectors.

Illustrative example(s)

- mail sorter
- postal clerk - mail and parcel sorting

Exclusion(s)

- Couriers and messengers (74102)
- Letter carriers (74101)
- Postal services representatives (64401)
- Supervisors, mail and message distribution occupations (72025)

Main duties

This group performs some or all of the following duties:

Mail sorters

- Sort mail according to destination
- Bundle, label, bag and route sorted mail to the proper delivery stream

- Operate vehicles and material handling equipment in order to sort mail and load postal trucks
- Search directories to find the correct address for redirected mail.

Mailroom clerks

- Receive, process, sort and distribute incoming and outgoing mail, faxes, messages and courier packages manually or electronically
- Maintain address databases and produce personalized mailings
- Print and photocopy material, stuff envelopes and affix address labels
- Weigh outgoing mail, calculate and affix proper postage, and bundle by postal code
- May operate and maintain print shop and mailing house equipment.

Employment requirements

- Completion of secondary school and some college office administration courses may be required.
- On-the-job training is required.
- Physical fitness may be required for some occupations in this unit group.

Additional information

- Progression to supervisory or facility management positions is possible with additional training or experience.

74101 Letter carriers

Letter carriers sort and deliver mail, record delivery of registered mail and collect money for cash-on-delivery parcels. They are employed by Canada Post Corporation.

Illustrative example(s)

- letter carrier
- postal carrier
- rural mail carrier

Exclusion(s)

- Couriers and messengers (74102)
- Letter carriers supervisor (See 72025-Supervisors, mail and message distribution occupations)
- Mail and parcel sorters and related occupations (74100)
- Postal services representatives (64401)

Main duties

This group performs some or all of the following duties:

- Organize mail by address and load into mailbag
- Deliver letters, small parcels and other printed matter along established routes
- Deliver telegrams, special delivery and express mail
- Collect payment for cash-on-delivery service
- Record delivery of registered mail

- Leave notices indicating that items could not be delivered and the location where they can be picked up
- Return undeliverable mail to postal station.

Employment requirements

- Some secondary school education is required.
- Two weeks to one month of training is provided by Canada Post Corporation.
- Physical fitness is required for some occupations in this unit group.

Additional information

- Progression to supervisory positions is possible with additional training or experience.

74102 Couriers and messengers

Couriers and messengers pick up and deliver letters, parcels, packages, messages and other items within and between establishments. They are employed by courier service companies and other establishments throughout the public and private sectors.

Illustrative example(s)

- bank messenger
- courier
- courier service driver
- delivery person - courier service
- mail service courier
- runner - courier service

Exclusion(s)

- Delivery service drivers and door-to-door distributors (75201)
- Letter carriers (74101)
- Supervisors, mail and message distribution occupations (72025)

Main duties

This group performs some or all of the following duties:

- Pick up messages, letters, envelopes, parcels, airline tickets, legal documents, packages, bonds, cheques, securities and other items from customers, and hand-deliver them to addresses within an establishment or in other establishments by walking, cycling or driving within prescribed time periods
- Collect payment for items delivered
- Keep record of items received and delivered using delivery information acquisition devices.

Employment requirements

- Secondary school education may be required.
- Eligibility for bonding may be required.
- Ability to navigate streets and follow directions is usually required.
- Physical fitness is required for some occupations in this unit group.

Additional information

- There is some mobility into other delivery occupations such as delivery drivers.
- There may be mobility to clerical occupations within the company.
- Progression to supervisory positions may be possible with experience.

742 Transport equipment operators, utility maintenance and related workers

This sub-major group comprises transport equipment operators, utility maintenance and related workers, including railway yard and track maintenance workers; water transport deck and engine room crew; air transport ramp attendants; automotive and heavy truck and equipment parts installers and servicers; utility maintenance workers; and public works maintenance equipment operators and related workers.

7420 Transport equipment operators, utility maintenance and related maintenance workers

This minor group comprises transport equipment operators, utility maintenance and related maintenance workers, including railway yard and track maintenance workers; water transport deck and engine room crew; air transport ramp attendants; automotive and heavy truck and equipment parts installers and servicers; utility maintenance workers; and public works maintenance equipment operators and related workers. They are employed by railway and marine transport companies; the federal government; cable ferry companies, ferry terminals, marine companies and canal, port and harbour authorities; airline and air services companies; automobile and truck service and repair shops; service departments of industrial establishments; and construction, mining and logging companies.

74200 Railway yard and track maintenance workers

Railway yard workers regulate yard traffic, couple and uncouple trains and perform related yard activities. Railway track maintenance workers operate machines and equipment to lay, maintain and repair railway tracks. They are employed by railway transport companies.

Illustrative example(s)

- ballast regulator operator - railway
- car controller - railway
- control tower operator - railway
- machine operator - railway
- rail saw operator
- railway equipment operator
- railway track patroller
- railway trackman/woman
- section worker - railway
- signal tower operator - railway
- spike machine operator - railway
- switch tender - railway yard
- tie tamper operator - railway
- towerman/woman - railway transport
- yard coupler - railway
- yard worker - railway

Inclusion(s)

- motor vehicle operator - pole yard

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)
- Railway and motor transport labourers (75211)
- Railway conductors and brakemen/women (73311)
- Supervisors, railway transport operations (72023)

Main duties

This group performs some or all of the following duties:

Railway yard workers

- Operate control panel switches from railway yard tower to set traffic signals and to activate train switches that regulate railway traffic in railway yards
- Operate car retarders, turntables and track switches to align locomotives and cars as required for coupling, uncoupling or servicing
- Switch cars according to instructions which indicate the location, disposition and number of cars
- Lubricate moving parts of railway cars and locomotives.

Railway track maintenance workers

- Operate machines and equipment such as sleeper sliders, anchors, rail lifters, drag drills, drag diggers, rail saws and tie-bar cranes to lay, maintain, repair, and align railway tracks, to transfer, spread, level and tamp ballast around ties and rails and to clear snow from tracks
- Clean and make minor repairs to machines and equipment
- Patrol assigned track sections to identify and report damaged or broken track
- Perform other track maintenance duties as directed.

Employment requirements

- Some secondary school education is usually required.
- Experience as a railway labourer is required.
- On-the-job training is provided.
- Railway yard workers require a Canadian Rail Operating Rules certificate.

Additional information

- Progression to a position such as brakeman is possible with experience.

74201 Water transport deck and engine room crew

Water transport deck and engine room crew stand watch, operate and maintain deck equipment, perform other deck and bridge duties and assist ship engineer officers to operate, maintain and repair engines, machinery and auxiliary equipment aboard ships or self-propelled vessels. They are employed by marine transportation companies and federal government departments.

Illustrative example(s)

- able seaman/woman (except armed forces)

- boatswain - water transport
- deckhand
- engine room crew member - ship
- helmsman/woman - water transport
- marine engine oiler
- marine engineering mechanic
- ship stoker
- ship tunnel operator

Exclusion(s)

- Deck officers, water transport (72602)
- Engineer officers, water transport (72603)
- Fishing vessel deckhands (84121)

Main duties

This group performs some or all of the following duties:

Deck crew - water transport

- Stand watch and steer ship or self-propelled vessel under the direction of the officer on watch
- Operate, maintain and repair deck equipment such as winches, cranes, derricks and hawsers
- Clean, chip and paint deck surfaces
- Handle mooring lines, and splice and repair ropes, wire cables and other cordage
- Load, discharge and secure ship cargo.

Engine room crew - water transport

- Assist ship engineer officers in performing routine maintenance work and repair to ship's engine, machinery and auxiliary equipment
- Monitor engine, machinery and equipment indicators, record variables and report abnormalities to ship engineer officer on watch
- Lubricate moving parts of engines, machinery and auxiliary equipment
- Operate and maintain off-loading liquid pumps and valves
- Maintain engine parts and keep engine room clean.

Employment requirements

- Some secondary school education is required.
- On-the-job training is provided.

Additional information

- Training and testing for various endorsements and certification, including the Marine Emergency Duty (MED) certificate, occur following employment as a deck crew member.
- Senior positions in this unit group, such as able seaman/woman, require experience.
- Progression to deck or ship engineer officer positions is possible with experience, additional training and deck officer certification by Transport Canada.

74202 Air transport ramp attendants

Air transport ramp attendants operate ramp-servicing vehicles and equipment, handle cargo and baggage and perform other ground support duties at airports. They are employed by airline and air services companies and the federal government.

Illustrative example(s)

- aircraft groomer
- airport ramp attendant
- cargo attendant - air transport
- ramp agent - air transport
- ramp attendant - air transport
- ramp services supervisor - airport
- station attendant - air transport

Exclusion(s)

- Airline load planner (See 64312-Airline ticket and service agents)
- Material handlers (75101)

Main duties

This group performs some or all of the following duties:

- Drive and operate ramp-servicing vehicles and equipment such as towing tractors, food service trucks, de-icer sprayers and lavatory servicing trucks
- Position passenger loading stairs and operate aircraft cargo doors
- Marshal or tow aircrafts to gate positions for passenger boarding and deplaning and for loading and unloading of cargo
- Sort and load cargo and passenger baggage according to instructions forwarded by load planner to achieve proper balance
- Unload, sort and route cargo and baggage
- Transport freight between aircraft and airport warehouse
- Clean and prepare aircraft interior for passengers and wash aircraft exterior.

Employment requirements

- Completion of secondary school is usually required.
- Experience operating baggage transporting equipment or warehouse experience may be required.
- A driver's licence and a good driving record are usually required.

Additional information

- There is mobility among jobs in this unit group.

74203 Automotive and heavy truck and equipment parts installers and servicers

Automotive and heavy truck and equipment parts installers and servicers install replacement automotive mechanical parts such as mufflers, exhaust pipes, shock absorbers, springs and radiators and perform routine maintenance service such as oil changes, lubrication and tire repairs on automobiles, trucks and heavy

equipment. They are employed by automobile and truck service and repair shops, service departments of industrial establishments and construction, mining and logging companies.

Illustrative example(s)

- crane greaser
- heavy equipment servicer (except mechanic)
- muffler installer
- radiator installer - auto repair service
- shock absorber installer
- spring installer
- tire repairer

Exclusion(s)

- Automotive service technicians, truck and bus mechanics and mechanical repairers (72410)
- Contractors and supervisors, mechanic trades (72020)
- Heavy-duty equipment mechanics (72401)

Main duties

This group performs some or all of the following duties:

- Change engine oil and lubricate running gears or moving parts of automobiles, trucks and heavy equipment
- Grease booms, pulleys, buckets and other components of heavy equipment
- Replace oil, air and fuel filters on motor vehicles, trucks and heavy equipment
- Install replacement mufflers, exhaust pipes, shock absorbers or radiators on motor vehicles, trucks and heavy equipment
- Repair and balance tires
- Add or replace hydraulic and transmission fluids in motor vehicles, trucks and heavy equipment
- Assist mechanics and perform other duties as directed
- Drive automobile or service truck to location of construction, logging or other industrial sites to provide services.

Employment requirements

- Some secondary school is usually required.
- Several weeks of on-the-job training are usually required.

Additional information

- There is some mobility among installers and servicers in this unit group.
- Progression to supervisory positions is possible with experience.

74204 Utility maintenance workers

Utility maintenance workers locate, repair, install and perform maintenance work to various equipment and facilities, such as water filtration and distribution plants, waste water treatment plants and power plants. They may also work on exterior and underground gas mains and distribution lines. They are employed by municipal, provincial and federal public works departments, private contractors under contract with government public works departments and gas distribution companies.

Illustrative example(s)

- gas leak locator
- gas maintenance worker
- gas utility operator
- pipeline maintenance worker
- pipeline patrolman/woman
- power pole inspector
- utility locator
- utility plant maintenance worker
- waterworks maintenance worker

Exclusion(s)

- Gas fitters (72302)
- Localiser - linguistic (See 51114-Translators, terminologists and interpreters)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)
- Water and waste treatment plant operators (92101)

Main duties

This group performs some or all of the following duties:

Waterworks maintenance workers

- Check, clean and lubricate waterworks equipment, such as pumping equipment, chlorination equipment and compressors
- Adjust and repair waterworks equipment under the direction of qualified tradesperson
- Search and locate reported water leaks and repair water-mains, valves or outlets
- Install water meters using hand and power tools.

Gas maintenance workers

- Check and lubricate gas pipeline valves
- Conduct routine survey of gas mains and distribution lines to detect and locate escaping gas using gas detecting devices
- Investigate reports of gas leaks to determine the exact location and extent of leaks
- Dig ground to expose gas lines and repair damaged pipes
- Keep record of work performed and location and condition of pipelines
- Provide information on underground gas distribution lines and observe excavation work to ensure that underground gas facilities are protected.

Other utility workers

- Operate equipment and instruments to locate and mark underground utility lines and pipes
- Provide information on underground utility lines
- Operate equipment and hand tools to inspect and test utility poles for decay and deterioration.

Employment requirements

- Completion of secondary school may be required.
- Several years of experience as a labourer in the same company may be required.
- On-the-job training is provided.
- Drinking water certification is required in Quebec and Ontario for waterworks maintenance workers.

Additional information

- Mobility between jobs in this unit group normally occurs within the same area of work, such as within waste water treatment plants, within water filtration and distribution plants or within gas distribution plants.
- Progression to supervisory positions is possible with experience.

74205 Public works maintenance equipment operators and related workers

Public works maintenance equipment operators and related workers operate vehicles and equipment to maintain streets, highways and sewer systems and operate trucks to collect garbage and recyclable materials. This unit group also includes workers who clear vegetation close to power lines. They are employed by municipal, provincial and federal public works departments, private contractors under contract with government public works departments and private companies involved in the collection of refuse and recyclable materials.

Illustrative example(s)

- garbage truck driver
- municipal maintenance equipment operator
- public works maintenance equipment operator
- salt truck operator
- sand spreader operator
- sewer-flushing truck operator - public works
- snow removal equipment operator - public works
- street flusher operator
- street sweeper operator
- utility arborist

Exclusion(s)

- Heavy equipment operators (73400)
- Landscaping and grounds maintenance labourers (85121)
- Public works and maintenance labourers (75212)
- Public works maintenance equipment operators supervisor (See 72021-Contractors and supervisors, heavy equipment operator crews)
- Transport truck drivers (73300)

Main duties

This group performs some or all of the following duties:

- Operate garbage trucks to remove garbage and other refuse and dump loads at designated sites
- Operate street cleaning equipment such as street sweepers or other vehicles equipped with rotating brushes to remove sand, litter and trash

- Operate snowplows or trucks fitted with plow blades to remove snow from streets, highways, parking lots and similar areas
- Operate sewer maintenance equipment such as rodders and sewer jet cleaners to maintain and repair sewer systems
- Operate trucks equipped with apparatuses for spreading sand, salt or abrasives on roadways
- Operate chainsaws and other clearing equipment to fell trees and cut back vegetation close to power lines
- Check, lubricate, refuel and clean equipment and report any malfunctions to supervisor.

Employment requirements

- Some secondary school may be required.
- Experience as a public works labourer is usually required.
- On-the-job training is provided.
- A driver's licence appropriate to a specific type of equipment may be required.
- Trade certification for utility arborists is available, but voluntary, in Ontario and British Columbia.

Additional information

- Progression to supervisory positions is possible with experience.

75 Helpers and labourers and other transport drivers, operators and labourers

This major group comprises helpers and labourers and other transport drivers, operators and labourers. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

751 Helpers and labourers

This sub-major group comprises helpers and labourers, including longshore workers and material handlers, and trades helpers and labourers.

7510 Longshore workers and material handlers

This minor group comprises longshore workers and material handlers. They are employed by marine cargo handling companies, shipping agencies and shipping lines; transportation, storage and moving companies; and a variety of manufacturing and processing companies and retail and wholesale warehouses.

75100 Longshore workers

Longshore workers transfer cargo throughout dock area and onto and from ships and other vessels. They are employed by marine cargo handling companies, shipping agencies and shipping lines.

Illustrative example(s)

- dockworker
- longshore worker
- longshoreman/woman
- ship loader operator
- stevedore
- tanker loader

Exclusion(s)

- Crane operators (72500)
- Longshore worker superintendent (See 72021-Contractors and supervisors, heavy equipment operator crews)
- Longshore workers foreman/woman (See 72021-Contractors and supervisors, heavy equipment operator crews)
- Material handlers (75101)

Main duties

This group performs some or all of the following duties:

- Operate industrial trucks, tractors and other mobile equipment to transfer cargo, such as containers, crated items, automobiles and pallet-mounted machinery, around dock to within range of cranes and hoists
- Operate winches or other hoisting devices to load and unload cargo onto and from ships and other vessels
- Operate mechanical towers to load vessels with materials such as coal and ore
- Operate equipment to transfer bulk materials, such as grain, to hold of vessels
- Connect hoses and operate equipment to transfer liquid materials into storage tanks on vessels
- Perform other activities such as lashing and shoring cargo aboard ships, opening and closing hatches, cleaning holds of ships and rigging cargo.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.

Additional information

- Progression to foreman/woman or supervisor of longshore workers is possible with experience.

75101 Material handlers

Material handlers handle, move, load and unload materials by hand or using a variety of material handling equipment. They are employed by transportation, storage and moving companies, and by a variety of manufacturing and processing companies and retail and wholesale warehouses.

Illustrative example(s)

- bin filler
- coal handler
- conveyor console operator
- forklift truck operator
- freight handler (except air transport)
- furniture mover
- lumber piler - building supplies
- material handler
- railway car loader
- stockpiler
- storage worker - material handling

- truck loader
- warehouseman/woman

Inclusion(s)

- grain elevator operator

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)
- Freight attendant - air transport (See 74202-Air transport ramp attendants)
- Heavy equipment operators (73400)
- Longshore workers (75100)
- Mover helper (See 75211-Railway and motor transport labourers)
- Storekeepers and partspersons (14401)
- Warehouse distribution supervisor (See 12013-Supervisors, supply chain, tracking and scheduling coordination occupations)

Main duties

This group performs some or all of the following duties:

- Load, unload and move products and materials by hand or using basic material handling equipment
- Move household appliances and furniture onto and off moving trucks or vans
- Perform other material handling activities such as counting, weighing, sorting, packing and unpacking
- Operate winches and other loading devices to load and unload materials onto and off trucks, railway cars and loading docks of warehouses and industrial establishments
- Operate industrial trucks, tractors, loaders and other equipment to transport materials to and from transportation vehicles and loading docks and to store and retrieve materials in warehouses
- Connect hoses or pipes and operate equipment to load and unload liquid petroleum, chemical or other products into or from tank cars, tank trucks or storage tanks
- Operate equipment to dump materials such as coal, ore and grain into or to remove materials from railway cars, trucks or other vehicles
- Operate conveyors and equipment to transfer grain or other materials from transportation vehicles to elevators, bins or other storage areas
- May perform other activities, such as opening containers and crates, filling warehouse orders, assisting in taking inventory and weighing and checking materials.

Employment requirements

- Some secondary school education may be required.
- Physical strength is required for manual material handlers who work with heavy materials.

7511 Trades helpers and labourers

This minor group comprises trades helpers and labourers, including Construction trades helpers and labourers, and other trades helpers and labourers. They are employed by construction companies; trade and labour contractors; surface mine and quarry operators; and a wide variety of manufacturing, utility and service companies.

75110 Construction trades helpers and labourers

Construction trades helpers and labourers assist skilled tradespersons and perform labouring activities at construction sites, in quarries and in surface mines. They are employed by construction companies, trade and labour contractors, and surface mine and quarry operators.

Illustrative example(s)

- asphalt spreader
- bricklayer helper
- carpenter helper
- concrete mixer helper
- concrete paving labourer
- construction helper
- construction labourer
- demolition worker
- driller helper - surface mining
- drywall sander
- excavation labourer
- flagperson
- glazier helper
- pipeline mandrel operator
- plumber helper
- roofer helper
- stabber - pipeline construction

Inclusion(s)

- rigger (except shipbuilding and aircraft assembly)
- rigger - construction

Exclusion(s)

- Other trades helpers and labourers (75119)
- Public works and maintenance labourers (75212)

Main duties

This group performs some or all of the following duties:

- Load and unload construction materials, and move materials to work areas
- Erect and dismantle concrete forms, scaffolding, ramps, catwalks, shoring and barricades required at construction sites
- Mix, pour and spread materials such as concrete and asphalt
- Assist tradespersons such as carpenters, bricklayers, cement finishers, roofers and glaziers in construction activities
- Assist heavy equipment operators to secure special attachments to equipment, signal operators to guide them in moving equipment and provide assistance in other activities

- Assist in aligning pipes and perform related activities during oil and gas pipeline construction
- Assist in drilling and blasting rock at construction sites
- Assist miners in excavating and in setting up and operating various drills and other surface mining machinery
- Level earth to fine grade specifications using rake and shovel
- Assist in demolishing buildings using prying bars and other tools, and sort, clean and pile salvaged materials
- Remove rubble and other debris at construction sites using rakes, shovels, wheelbarrows and other equipment
- Operate pneumatic hammers, vibrators and tampers as directed
- Tend or feed machines or equipment used in construction such as mixers, compressors and pumps
- Clean up chemical spills and other contaminants, and remove asbestos and other hazardous materials
- Oil and grease hoists and similar equipment
- Direct traffic at or near construction sites
- Perform other activities at construction sites, as directed.

Employment requirements

- Some experience as a general construction labourer may be required for construction trade helpers.
- Some pipeline workers, such as stabbers, mandrel operators and pre-heater tenders, usually require one season of experience in oil and gas pipeline construction.
- Flagmen/women may require a traffic control certificate.
- Riggers and slingers may require a rigging certificate.
- On-the-job training may be provided.

Additional information

- Mobility is possible among workers in this unit group.
- Progression from rigger to crane operator is possible with experience and additional certification.

75119 Other trades helpers and labourers

Other trades helpers and labourers assist skilled tradespersons and perform labouring activities in the installation, maintenance and repair of industrial machinery, refrigeration, heating and air conditioning equipment, in the maintenance and repair of transportation and heavy equipment, in the installation and repair of telecommunication and power cables and in other repair and service work settings. They are employed by a wide variety of manufacturing, utility and service companies.

Illustrative example(s)

- aerial spraying assistant
- aircraft mechanic helper
- cable installer helper
- diesel mechanic helper
- ground worker - telecommunications
- mechanic's helper - automotive
- millwright helper
- refrigeration mechanic helper

- splicer helper - telecommunications
- surveyor helper

Exclusion(s)

- Construction trades helpers and labourers (75110)

Main duties

This group performs some or all of the following duties:

- Move tools, equipment and other materials to and from work areas
- Assist in splicing overhead and underground communications and electric power transmission cables
- Assist in repairing, maintaining and installing industrial machinery and equipment
- Assist in repairing, maintaining and installing refrigeration, heating and air conditioning equipment
- Assist in repairing, maintaining and installing elevators
- Assist in repairing and maintaining stationary electric power generating and distribution equipment
- Assist in mechanical, electrical and body repairs of aircraft, railway cars, automobiles, trucks, buses, heavy equipment and motorcycles
- Assist in repairing electrical appliances, small engines or other similar equipment
- Mix fertilizers, herbicides and pesticides and load mixture into airplane for aerial spraying
- Assist in land surveying activities, such as holding or moving stakes and rods, clearing brush and debris from line of survey and transporting surveying tools to work area
- Perform other labouring and elemental tasks as required.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.

Additional information

- There is little or no mobility between occupations in this unit group.

752 Transport drivers, operators and labourers

This sub-major group comprises transport drivers, operators and labourers, including taxi and personal service and delivery service drivers, and water and rail transport operators and labourers and related occupations.

7520 Taxi, personal service and delivery service drivers

This minor group comprises taxi, personal service and delivery service drivers, including taxi and limousine drivers and chauffeurs, and delivery service drivers and door-to-door distributors. They are employed by taxi and other transportation service companies; retail, food and other personal service businesses, governments; private individuals and families; and many other establishments; or they may be self-employed.

75200 Taxi and limousine drivers and chauffeurs

Taxi and limousine drivers drive automobiles and limousines to transport passengers. Chauffeurs drive automobiles and limousines to transport personnel and visitors of businesses, government or other organizations or members of private households. Taxi and limousine drivers are employed by taxi and other transportation service companies, or they may be self-employed. Chauffeurs are employed by businesses, government and other organizations, or private individuals or families.

Illustrative example(s)

- airport limousine driver
- company chauffeur
- limousine driver
- private chauffeur
- taxi driver

Exclusion(s)

- Supervisors, motor transport and other ground transit operators (72024)
- Taxi dispatcher (See 14404-Dispatchers)

Main duties

This group performs some or all of the following duties:

Taxi and limousine drivers

- Pick up passengers and drive them to destinations in taxicabs or limousines
- Help passengers with luggage and with boarding and exiting vehicles and assist passengers with special needs
- Collect flat-rate or taximeter fares
- Maintain travel logs and record cash and credit transactions
- Maintain contact with taxi dispatch unit
- Clean and make minor repairs to vehicle or take vehicle for servicing
- May provide pick up and delivery services on request.

Chauffeurs

- Pick up or meet employer according to request, appointment or schedule
- Drive employer to destinations in automobile or limousine
- Perform business and personal errands for employer such as delivering and picking up mail, business documents and parcels
- Clean and make minor repairs to vehicle or take vehicle for servicing.

Employment requirements

- Some secondary school education is usually required.
- A minimum of one year of safe driving experience is usually required.
- A Class G driver's licence is required in Ontario, and a Class 4 driver's licence is required in all other provinces and the territories.
- Taxi and limousine drivers require good knowledge of the geographical area to be covered and may have to pass written street/building location and safety examinations.
- Taxi drivers usually require a municipal permit.
- First aid certification may be required.

Additional information

- Mobility from taxi or limousine driver to chauffeur is possible with experience.

75201 Delivery service drivers and door-to-door distributors

Delivery service drivers drive automobiles, vans and light trucks to pick up and deliver various products. Door-to-door distributors deliver items to residences and businesses. They are employed by dairies, drug stores, newspaper distributors, take-out food establishments, dry cleaners, mobile caterers and many other establishments, or they may be self-employed.

Illustrative example(s)

- bread deliverer
- canteen driver
- delivery driver
- door-to-door distributor
- driver salesperson
- dry cleaning driver
- flyer distributor
- newspaper carrier
- newspaper delivery driver
- pizza delivery driver
- vending machine driver-supplier

Exclusion(s)

- Couriers and messengers (74102)
- Delivery drivers supervisor (See 72024-Supervisors, motor transport and other ground transit operators)
- Delivery truck helper (See 75211-Railway and motor transport labourers)
- Dispatchers (14404)
- Garbage truck driver (See 74205-Public works maintenance equipment operators and related workers)
- Heavy truck driver (See 73300-Transport truck drivers)

Main duties

This group performs some or all of the following duties:

- Operate and drive automobiles, vans and light trucks to pick up and deliver various products, such as food, newspapers, magazines, bakery and dairy products, and items such as dry cleaning
- Deliver newspapers, flyers, handbills, telephone directories and similar items to residences and businesses
- Perform pre-trip and post-trip inspection of vehicle
- Plan delivery travel schedules and service routes
- Load and unload cargo, goods or merchandise
- Provide customer service by selling products, delivering over established routes and accepting or making payments for goods
- Record information on pick-ups and deliveries, vehicle mileage and fuel costs and report any incidents or problems encountered
- May scan and sort freight or cargo for delivery
- May assemble, install or set-up delivered goods or merchandise
- May communicate with central dispatch using mobile communications equipment.

Employment requirements

- Some secondary school is usually required.
- A driver's licence appropriate to the class of vehicle being driven is required.
- One year of safe driving experience is usually required.
- On-the-job training may be provided.
- Eligibility for bonding and transportation of dangerous goods (TGD) certification may be required for delivery and courier drivers.

Additional information

- Progression to supervisory positions or to non-driving occupations, such as driver trainer or dispatcher is possible with additional training or experience.

7521 Water and rail transport operators and labourers and related occupations

This minor group comprises water and rail transport operators and labourers and related occupations, including boat and cable ferry operators and related occupations; railway and motor transport labourers; and public works and maintenance labourers. They are employed by public works departments in all levels of government; private contractors under contract to governments; and railway and water transport companies.

75210 Boat and cable ferry operators and related occupations

Boat and cable ferry operators and workers in related occupations operate lock gates, bridges and similar equipment along canal systems and operate cable ferries and ferry terminals. This unit group also includes boat operators, and owner-operators, who operate small motorboats or watercraft to transport passengers or freight. They are employed by the federal government, cable ferry companies, ferry terminals, marine companies and canal, port or harbour authorities. Owner-operators of small boats are self-employed.

Illustrative example(s)

- bridgemaster
- cable ferry operator
- canal lock operator
- charter boat operator
- ferry terminal worker
- launch master
- linesman/woman - canal lock system
- loading bridge operator
- lockmaster
- motorboat operator
- scow captain
- sightseeing boat operator
- small craft operator
- water taxi operator

Exclusion(s)

- Deck officers, water transport (72602)
- Water transport deck and engine room crew (74201)

Main duties

This group performs some or all of the following duties:

Lock equipment operators

- Operate telecommunication equipment or use portable loudspeakers to direct movements of vessels in lock area
- Operate controls to open or close lock gates
- Operate controls to raise, lower or turn bridges
- Observe progress of vessels passing through locks.

Cable ferry operators

- Signal passengers and motor vehicles to embark and disembark
- Operate cable ferry across narrow waterway
- Perform routine maintenance and repairs to engine, cables and winches.

Ferry terminal workers

- Operate controls to adjust landing bridge, position or remove gangplank, open or close doors and gates, and secure or remove docking devices
- Signal passengers and motor vehicles to embark and disembark
- May collect tickets or fares from passengers.

Boat operators

- Operate motorboats, launches, small ferry boats and other similar vessels to transport passengers or freight
- Maintain boats and equipment on board, such as engines, winches, derricks, fire extinguishers and life preservers
- May perform other duties, such as checking for oil spills or other pollutants around ports and harbours, patrolling beaches and measuring depth of water.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Master, Master Limited or Small Vessel Operator Proficiency (SVOP) Certificate, issued by Transport Canada, is required for boat operators.
- Marine Emergency Duties (MED) training is required for boat operators and crew members.

Additional information

- There is little or no mobility among lock equipment operators, cable ferry operators and ferry terminal workers.
- Mobility between boat operators in this unit group is possible.
- Progression from boat operator positions to deck officer positions is possible with additional training, experience and certification.

75211 Railway and motor transport labourers

Railway and motor transport labourers perform a variety of tasks to assist track maintenance workers and railway yard workers, or motor transport operators. They are employed by railway transport companies and motor transport companies.

Illustrative example(s)

- car checker - railway
- delivery truck helper
- furniture mover helper
- mover helper
- railway labourer
- signal gang helper
- swamper - truck transport
- truck driver helper

Exclusion(s)

- Material handlers (75101)
- Railway car greaser (See 74200-Railway yard and track maintenance workers)
- Railway car oiler (See 74200-Railway yard and track maintenance workers)

Main duties

This group performs some or all of the following duties:

Railway labourers

- Transport tools and equipment on push or hand car and perform other duties to assist railway track maintenance workers to lay, maintain and repair railway tracks
- Cut vegetation growth from railway tracks using scythes and mowers
- Check freight cars for physical damage and cleanliness.

Motor transport labourers

- Assist truck and delivery drivers to load and unload vehicles
- Perform labouring duties in warehouses.

Employment requirements

- Some secondary school education is usually required.

Additional information

- With experience, railway labourers may progress to railway track maintenance workers or railway yard workers.

75212 Public works and maintenance labourers

Public works and maintenance labourers perform a variety of labouring activities to maintain sidewalks, streets, roads and similar areas. They are employed by public works departments in all levels of government or by private contractors under contract to governments.

Illustrative example(s)

- helper - garbage collection
- municipal labourer
- parking meter collector
- public works labourer
- road maintenance worker
- sewer maintenance worker
- sidewalk cleaner

Exclusion(s)

- Construction worker (See 75110-Construction trades helpers and labourers)
- Park maintenance labourer (See 85121-Landscaping and grounds maintenance labourers)
- Public works maintenance equipment operators and related workers (74205)
- Public works maintenance equipment operators supervisor (See 72021-Contractors and supervisors, heavy equipment operator crews)

Main duties

This group performs some or all of the following duties:

- Clean and maintain sidewalks, streets, roads and public grounds of municipality and other areas, working as member of crew
- Sweep debris and remove snow from streets, sidewalks, building grounds and other areas, and load snow and debris into carts or trucks
- Shovel cement and other materials into cement mixers, spread concrete and asphalt on road surfaces using shovels, rakes and hand tampers, and perform other activities to assist in maintenance and repair of roads
- Spread sand or salt on sidewalks for snow and ice control
- Dig ditches and trenches using shovels and other hand tools
- Operate jackhammers and drills to break up pavement
- Load and unload trucks with supplies and equipment
- Collect money from coin boxes of parking meters along established route
- Collect and load refuse on garbage trucks
- Assist equipment operators to secure attachments to equipment or trucks
- Assist in routine maintenance and repair of equipment
- Assist skilled tradespersons such as carpenters, plumbers and mechanics
- May operate mobile sidewalk-cleaning equipment.

Employment requirements

- Several weeks of on-the-job training are provided.

Additional information

- Progression to supervisory positions or to public works maintenance equipment operator positions is possible with experience.

8 Natural resources, agriculture and related production occupations

This broad category comprises middle management occupations in natural resources, agriculture and related production, as well as occupations concerned with supervision and equipment operation in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Harvesting, landscaping and natural resources labourers are also included. Most occupations in this category are industry specific and do not occur outside of the primary resources industries.

80 Middle management occupations in production and agriculture

This major group comprises middle management occupations in production and agriculture. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

800 Middle management occupations in production and agriculture

This sub-major group comprises middle management occupations in production and agriculture, including managers in natural resources production and fishing, and managers in agriculture, horticulture and aquaculture.

8001 Managers in natural resources production and fishing

This minor group comprises managers in natural resources production and fishing. They are employed by establishments in forestry and logging, mining and quarrying, oil and gas drilling, production and servicing operations, and commercial fishing.

80010 Managers in natural resources production and fishing

Managers in natural resources production and fishing plan, organize, direct, control and evaluate the operations of establishments in forestry and logging, mining and quarrying, oil and gas drilling, production and servicing operations, and commercial fishing.

Illustrative example(s)

- director of mining
- drilling operations manager
- fishing operations manager
- forestry operations manager
- gas field operations manager
- mine manager
- oil well servicing manager
- quarry manager
- shore captain - fishing

Exclusion(s)

- Contractors and supervisors, oil and gas drilling and services (82021)
- Fishing masters and officers (83120)
- Managers in agriculture (80020)
- Research director - forestry (See 20011-Architecture and science managers)
- Research director - mining (See 20011-Architecture and science managers)
- Senior managers - construction, transportation, production and utilities (00015)

- Supervisors, logging and forestry (82010)
- Supervisors, mining and quarrying (82020)

Main duties

This group performs some or all of the following duties:

- Oversee and analyze operations in forestry, logging, mining, quarrying, or oil and gas operations or in services to logging, mining and oil and gas industries, or in commercial fishing
- Recommend operational changes to senior management when necessary to ensure that production quotas and procedures are met
- Prepare production reports for review by senior management
- Confer with other managers to set production quotas, to plan extraction sites and to develop policies for the removal of raw materials
- Evaluate efficiency of production sites to determine adequacy of personnel, equipment and technologies used, and make changes to work schedule or equipment when necessary
- Ensure adherence to safety regulations
- Hire personnel and oversee training needs of staff
- May direct peripheral activities such as the construction of access roads or temporary living quarters.

Employment requirements

- Forestry managers usually require a bachelor's degree in forestry science or forest engineering.
- Mining and quarrying managers usually require a bachelor's degree in mining engineering or earth sciences.
- Oil and gas managers usually require a bachelor's degree in geology, earth sciences or petroleum engineering.
- Several years of experience in a supervisory occupation in the particular industry are usually required and may substitute for formal education requirements.

Additional information

- Progression to senior management positions in the respective industries is possible with experience.

8002 Managers in agriculture, horticulture and aquaculture

This minor group comprises managers in agriculture, horticulture and aquaculture. They are employed by farms, ranches and orchards; nurseries and greenhouses; and public and private fish hatcheries and commercial aquatic farms; or they may own and operate their own establishments; or they may be self-employed.

80020 Managers in agriculture

Managers in agriculture plan, organize, direct, control and evaluate the operations and functions of farms. They are responsible for growing crops, raising and breeding livestock, poultry and other animals, marketing farm products and enhancing farms' sustainability through, notably, the implementation of new technologies. They usually own and operate their own establishment.

Illustrative example(s)

- apiarist
- apple grower
- chicken farmer

- dairy farmer
- domestic animal breeder
- fruit farmer
- hog breeder
- horse breeder
- maple syrup producer
- market gardener
- potato farmer
- rancher
- seed grower
- sod farmer
- vegetable grower
- vineyard manager
- viticulturist
- wheat farmer

Exclusion(s)

- Agricultural service contractors and farm supervisors (82030)
- Managers in horticulture (80021)

Main duties

This group performs some or all of the following duties:

- Manage the overall operations of a farm, ranch or orchard
- Determine the amount and kinds of crops to be grown and livestock to be raised
- Organize and coordinate planting, cultivating and crop harvesting activities; raising and breeding of livestock and poultry
- Hire and manage farm personnel
- Establish a marketing program
- Develop and keep financial and production records
- Purchase farm machinery, livestock, seed, feed and other supplies
- Maintain farm machinery, equipment and buildings
- Perform farming duties
- May collect data and use digital technology tools and equipment to enhance the sustainability of the farm.

Managers in agriculture manage farms of various sizes which may specialize in particular crops such as wheat, apples or potatoes or raise particular livestock such as beef cattle, swine or poultry.

Employment requirements

- Extensive farming experience, obtained as a farm supervisor or specialized crop or livestock worker or by working on a farm, is usually required.
- A university degree or college diploma in agricultural management or other field related to crop or livestock production may be required.

80021 Managers in horticulture

Managers in horticulture plan, organize, direct and control the activities of nursery and greenhouse staff who grow and market trees, shrubs, flowers and plants.

Illustrative example(s)

- Christmas tree farm operator
- flower grower
- greenhouse manager
- greenhouse operator
- nursery manager
- nursery operator
- plant grower - nursery

Exclusion(s)

- Nursery and greenhouse labourers (85103)
- Turf farmer AND sod farmer (See 80020-Managers in agriculture)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct and control the operations of nurseries and greenhouses
- Establish the environmental conditions required to grow trees, shrubs, flowers and plants, and design planting and care schedules accordingly
- Determine type and quantity of stock to grow
- Supervise staff in planting, transplanting, feeding and spraying stock
- Identify and control insect, disease and weed problems
- Develop marketing plans
- Provide information to customers on gardening and on the care of trees, shrubs, flowers, plants and lawns
- Order materials such as fertilizer, garden and lawn care equipment, and other nursery and greenhouse related accessories
- Hire and manage staff, oversee training and set work schedules
- Maintain records on stock, finances and personnel.

Employment requirements

- Completion of a college program in horticulture is usually required.
- Experience as a nursery or greenhouse supervisor is required.

80022 Managers in aquaculture

Managers in aquaculture manage operations of facilities which cultivate and harvest fish, shellfish or marine plants for replenishment of wildlife stocks or for commercial sale. They are employed by public or private fish hatcheries and commercial aquatic farms, or they may be self-employed.

Illustrative example(s)

- aquaculture manager

- aquaculture operator
- fish farm operator
- fish farmer
- fish hatchery manager
- fish hatchery operator
- fish hatchery supervisor
- mussel grower
- oyster grower
- salmon grower
- shellfish farmer
- trout farmer

Exclusion(s)

- Aquaculture support worker (See 85102-Aquaculture and marine harvest labourers)
- Aquaculture technician (See 22110-Biological technologists and technicians)

Main duties

This group performs some or all of the following duties:

- Manage the overall operation of a fish hatchery, fish farm or other aquatic farm
- Identify requirements of the species and select and oversee preparation of site for species cultivation
- Coordinate selection and maintenance of brood stock
- Determine food requirements and structure feeding regimes
- Monitor environment and maintain optimum conditions
- Conduct and supervise stock examination to identify disease or parasites, and apply prescribed medicinal substances to control and prevent infection
- Operate and maintain cultivating and harvesting equipment
- Collect and record growth and production data
- Manage and train aquaculture and fish hatchery support workers and supervise technicians and technologists
- Maintain financial records and establish market strategies, inventory and quality control methods
- May scuba dive to inspect sea farm operations
- May design and construct pens, floating stations and collector strings or fences for sea farms.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma in aquaculture or a related field
or
Several years of experience in fishing or aquaculture operations are usually required.
- A commercial aquaculture or fish hatchery licence, permit or lease is required for self-employed aquaculture managers.

82 Supervisors in natural resources, agriculture and related production

This major group comprises supervisors in natural resources, agriculture and related production. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

820 Supervisors in natural resources, agriculture and related production

This sub-major group comprises supervisors in natural resources, agriculture and related production, including supervisors, logging and forestry; contractors and supervisors, mining, oil and gas; and contractors and supervisors, agriculture, horticulture and related operations and services.

8201 Supervisors, logging and forestry

This minor group comprises supervisors, logging and forestry. They are employed by logging companies, contractors and government agencies.

82010 Supervisors, logging and forestry

Supervisors in logging and forestry supervise and coordinate the activities of workers engaged in logging operations and silvicultural operations. They are employed by logging companies, contractors and government agencies.

Illustrative example(s)

- forest operations supervisor
- forestry crew supervisor
- hook tender - logging
- logging contractor
- logging foreman/woman
- production supervisor - logging
- silviculture supervisor
- woods foreman/woman

Exclusion(s)

- Chain saw and skidder operators (84110)
- Forestry and logging manager (See 80010-Managers in natural resources production and fishing)
- Forestry technologists and technicians (22112)
- Logging machinery operators (83110)
- Silviculture and forestry workers (84111)

Main duties

This group performs some or all of the following duties:

- Supervise and coordinate the activities of logging and forestry workers in woodland operations, often in several work locations over several square kilometres
- Oversee silvicultural activities such as scarification, planting and vegetation control

- Schedule work crews, equipment and transportation for several work locations
- Resolve work problems and recommend measures to improve work methods
- Instruct workers in safety, recognize unsafe work conditions and modify work procedures
- Ensure that government regulations are met
- Communicate with forestry technical, professional and management personnel regarding forest harvesting and forest management plans, procedures and schedules
- Prepare production and other reports
- Hire and train new workers.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a one- to three-year college program for forestry technologists or technicians may be required.
- Formal company training and several months of on-the-job training are provided.
- Several years of experience as a logger, silvicultural worker, or logging machinery operator are usually required.
- A chemical application licence may be required.
- An industrial first aid certificate may be required.

8202 Contractors and supervisors, mining, oil and gas

This minor group comprises contractors and supervisors, mining, oil and gas, including supervisors, mining and quarrying, and contractors and supervisors, oil and gas drilling and services. They are employed by coal, metal and non-metallic mineral mines and quarries; drilling and well service contracting companies; and petroleum producing companies; or they may be self-employed.

82020 Supervisors, mining and quarrying

Supervisors in mining and quarrying supervise and coordinate activities of workers engaged in underground and surface mining operations and quarries. They are employed by coal, metal and non-metallic mineral mines and quarries.

Illustrative example(s)

- fill foreman/woman - underground mining
- mine captain
- mine foreman/woman
- mine supervisor
- quarry supervisor
- surface mine supervisor
- track boss - underground mining
- underground mine foreman/woman

Exclusion(s)

- Drillers and blasters - surface mining, quarrying and construction (73402)
- Heavy equipment operators (73400)
- Mine labourers (85110)

- Mine manager (See 80010-Managers in natural resources production and fishing)
- Underground mine service and support workers (84100)
- Underground production and development miners (83100)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who extract coal, minerals and ore; operate underground conveyances; and perform other services in support of underground mining, or of heavy equipment operators, drillers, blasters and other workers in surface mining and quarrying
- Establish methods to meet work schedules and confer with managerial and technical personnel, other departments and contractors to resolve problems and coordinate activities
- Oversee the safety of the mining or quarrying operations
- Resolve work problems and recommend measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is required.
- Completion of a college or university program in mining technology or engineering may be required for some positions in this group.
- Several years of experience in the occupations supervised are usually required.
- Provincial certification as an underground mine supervisor, shift boss, or coal mining supervisor may be required.

Additional information

- There is mobility between employers, especially for supervisors with post-secondary diplomas or degrees.
- Mobility between surface mining, underground mining, coal or metal mining sectors may be limited by differences in production technologies and licensing requirements.

82021 Contractors and supervisors, oil and gas drilling and services

Contractors and supervisors in oil and gas drilling and services supervise and coordinate the activities in drilling for oil or gas, operating service rigs, or providing oil and gas well services. They are employed by drilling and well service contracting companies and petroleum producing companies. Contractors may be self-employed.

Illustrative example(s)

- fracturing supervisor
- multi-service operator - oil field services
- rig manager

Inclusion(s)

- oil field consultant
- toolpusher

Exclusion(s)

- Geological and mineral technologists and technicians (22101)
- Managers in natural resources production and fishing (80010)
- Oil and gas well drillers, servicers, testers and related workers (83101)
- Oil and gas well drilling and related workers and services operators (84101)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who drill for oil and gas, operate service rigs or provide oil and gas well services
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition and procure materials and supplies
- Ensure appropriate control measures are in place to protect the health and safety of workers
- Resolve work problems and recommend measures to improve productivity and safety
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Review, audit and approve workers' paperwork and complete proper documentation
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is required.
- Completion of college or petroleum industry approved training courses is required.
- Extensive experience in the occupations supervised is required.
- A two-year college diploma in petroleum engineering technology may be required.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) or other safety and technical subjects are required and are obtained by completing short courses.

Additional information

- There is little mobility for supervisors from well services to well drilling.

8203 Contractors and supervisors, agriculture, horticulture and related operations and services

This minor group comprises contractors and supervisors, agriculture, horticulture and related operations and services, including agricultural service contractors and farm supervisors, and contractors and supervisors, landscaping, grounds maintenance and horticulture services. They are employed on livestock and other farms; by landscaping companies, cemeteries, lawn care and tree service companies, nurseries and greenhouses; and landscaping operations of public works departments and private establishments; or they may be self-employed.

82030 Agricultural service contractors and farm supervisors

Agricultural service contractors provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting. Farm supervisors supervise the work

of specialized livestock workers, farm machinery operators, livestock labourers, aquaculture labourers and harvesting labourers. They operate their own business or may be employed by farms and agricultural enterprises.

Illustrative example(s)

- artificial insemination service contractor
- crop harvesting service contractor
- farm foreman/woman
- farm supervisor
- feedlot foreman/woman
- hog operation supervisor
- livestock breeding service contractor
- poultry farm foreman/woman
- ranch foreman/woman
- vegetable farm foreman/woman

Exclusion(s)

- Harvesting labourers (85101)
- Livestock labourers (85100)
- Managers in agriculture (80020)
- Managers in horticulture (80021)
- Pest controllers and fumigators (73202)
- Pet groomers and animal care workers (65220)
- Specialized livestock workers and farm machinery operators (84120)

Main duties

This group performs some or all of the following duties:

Agricultural service contractors

- Provide agricultural livestock services such as artificial insemination, spraying or shearing of livestock or disinfecting pens, barns or poultry houses
- Provide agricultural crop services such as plowing, irrigating, cultivating, spraying or harvesting
- Assist in the development and implementation of farm safety and bio-security procedures
- Hire and train workers
- Negotiate the terms of services to be provided
- Maintain financial and operational records
- May participate in the provision of services or in the operation of machinery and equipment
- May operate and repair digital technology and communication tools and equipment, such as robotic milking systems and global positioning systems (GPS).

Farm supervisors

- Coordinate, assign and supervise the work of specialized livestock workers, farm machinery operators, livestock labourers and harvesting labourers
- Supervise and oversee breeding and other livestock-related programs
- Supervise, monitor and enforce procedures to maintain animal and crop health and welfare

- Supervise and oversee growing and other crop-related operations
- Supervise maintenance of infrastructure, equipment, and supplies
- Develop work schedules and establish procedures
- Ensure farm safety, food safety and security and bio-security procedures are followed
- Maintain quality control and production records
- May perform general farm duties
- May operate and repair digital technology and communication tools and equipment, such as robotic milking systems and global positioning systems (GPS).

Farm supervisors may specialize in areas such as dairy, poultry, swine, beef, sheep, equine, fruit, vegetable, mixed or other specialty farming.

Employment requirements

- Agricultural service contractors usually require a university degree, college diploma or industry courses in agricultural studies and several years of experience related to the service offered.
- Contractors providing certain services, such as artificial insemination and pesticide application, may require training certificates and provincial licensing.
- Farm supervisors may require a college certificate or other specialized training in agriculture or livestock husbandry.
- A course or certificate in first aid may be required.

82031 Contractors and supervisors, landscaping, grounds maintenance and horticulture services

Contractors and supervisors, landscaping, grounds maintenance and horticulture services supervise and coordinate the activities of workers in the following unit groups: Nursery and greenhouse workers (85103) and Landscaping and grounds maintenance labourers (85191). They are employed by landscaping companies, cemeteries, lawn care and tree service companies, nurseries and greenhouses and by landscaping operations of public works departments and private establishments. Contractors may be self-employed.

Illustrative example(s)

- greenhouse supervisor
- grounds maintenance contractor
- groundskeeping supervisor
- horticulture workers supervisor
- interior plantscaping contractor
- landscaping contractor
- landscaping foreman/woman
- landscaping supervisor
- lawn care contractor
- nursery foreman/woman
- park maintenance supervisor
- tree service contractor

Exclusion(s)

- Contractors and supervisors, heavy equipment operator crews (72021)
- Contractors and supervisors, other construction trades, installers, repairers and servicers (72014)
- Landscape and horticulture technicians and specialists (22114)
- Landscape architects (21201)
- Managers in agriculture (80020)
- Managers in horticulture (80021)

Main duties

This group performs some or all of the following duties:

- Supervise and coordinate the activities of workers who maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, interior landscapes and other landscaped areas
- Tender bids on contracts for landscaping and grounds maintenance work
- Plan and estimate the materials and labour requirements for individual contracts
- Organize the planting and maintenance of trees, gardens, lawns, shrubs and hedges and the construction and installation of fences, decks, patios, walkways and retaining walls
- Establish work schedules and procedures and coordinate activities with other work units
- Resolve work-related problems and prepare and submit progress and other reports
- Requisition supplies and materials
- Maintain financial and personnel records
- Hire staff and train workers in job duties and company policies
- May manage operations of own company
- May provide snow removal services during winter months
- May perform the same duties as workers supervised.

Employment requirements

- Completion of secondary school is usually required.
- A college diploma, specialized courses or industry-related training and certification in landscaping and horticulture are usually required.
- Experience as a landscape or horticulture supervisor or as a landscape or horticulture technician is required.
- Experience in the type of work supervised is required.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

83 Occupations in natural resources and related production

This major group comprises occupations in natural resources and related production. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

831 Occupations in natural resources and fisheries

This sub-major group comprises occupations in natural resources and fisheries, including underground miners, oil and gas drillers and related occupations; logging machinery operators; and fishing vessel masters and fishermen/women.

8310 Underground miners, oil and gas drillers and related occupations

This minor group comprises underground miners, oil and gas drillers and related occupations, including underground production and development miners; oil and gas well drillers, servicers, testers and related workers. They are employed by coal, metal and non-metallic mineral underground mines; specialized contractors in mine construction, shaft sinking and tunnelling; drilling and well service contractors; petroleum producing companies; and well logging and testing companies.

83100 Underground production and development miners

Underground production and development miners drill, blast, operate mining machinery, and perform related duties to extract coal and ore in underground mines and to construct tunnels, passageways and shafts to facilitate mining operations. They are employed by coal, metal and non-metallic mineral underground mines and by specialized contractors in mine construction, shaft sinking and tunnelling. Apprentices are also included in this unit group.

Illustrative example(s)

- blaster - underground mining
- chute blaster - underground mining
- diamond driller - underground mining
- drift miner
- driller - underground mining
- hardrock miner apprentice
- hoist operator - underground mining
- miner
- mining machine operator
- powderman/woman - underground mining
- raise miner
- roadheader operator
- scooptram operator
- shaft inspector

Exclusion(s)

- Drillers and blasters - surface mining, quarrying and construction (73402)
- Mine labourers (85110)
- Supervisors, mining and quarrying (82020)
- Underground mine service and support workers (84100)

Main duties

This group performs some or all of the following duties:

- Set up and operate drills and drilling machines to produce a designated pattern of blasting holes
- Operate diamond drills or other specialized drills such as raise boring machinery to test geological formations or to produce underground passageways
- Set up and operate mining machinery to shear coal, rock or ore from the working face
- Load explosives, set fuses, and detonate explosives to produce desired blasting patterns and rock fragmentation in underground mines
- Operate scooptram, load-haul-dump (LHD) machine or mucking machine to load and haul ore from stopes, drifts and drawpoints to ore passes
- Perform duties required to ensure safety and to support the mining advance, such as scaling loose rock from walls and roof, drilling and installing rock bolts, extending and installing air and water pipes, operating ore loading machinery, inspecting mine shafts, operating hoists that transport people, equipment and materials through mine shafts, and constructing timber supports and cribbing if required
- Perform routine maintenance of mining machinery.

Employment requirements

- Completion of secondary school is usually required.
- Formal training of up to six weeks followed by extended periods of specialized training as a helper or in support occupations is usually provided.
- Previous experience as a mine labourer or in other mine occupations is usually required.
- Provincial blasting licence may be required.
- May be certified in the basic common core program or as an underground hard rock miner in Ontario.
- Trade certification for miners is available, but voluntary, in Quebec.
- Company licensing or certification is often required for occupations in this unit group.
- Certificate in first aid may be required.

Additional information

- Mobility is possible to other occupational groups in underground mining such as underground service and support occupations.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.
- Mobility between these sectors is somewhat limited by differences in production technologies.
- Progression to mining supervisor is possible with experience.

83101 Oil and gas well drillers, servicers, testers and related workers

Oil and gas well drillers and well servicers control the operation of drilling and hoisting equipment on drilling and service rigs, and direct the activities of the rig crew under supervision of the rig manager. Oil and gas well loggers, testers and related workers operate specialized mechanical or electronic equipment, tools or instruments to provide services in conjunction with well drilling, completion or servicing. They are employed by drilling and well service contractors, petroleum producing companies and well logging or testing companies.

Illustrative example(s)

- assistant driller - oil and gas well drilling
- directional drilling operator

- downhole tool operator
- drill stem tester
- driller - oil and gas drilling
- electric line operator
- logging and perforating operator
- service rig operator
- slickline operator
- well testing operator
- wireline operator

Exclusion(s)

- Oil and gas well drilling and related workers and services operators (84101)
- Rig manager (See 82021-Contractors and supervisors, oil and gas drilling and services)
- Water well drillers (72501)

Main duties

This group performs some or all of the following duties:

Oil and gas well drillers and well servicers

- Direct rig crew in setting up rigs and drilling, completing or servicing oil and gas exploration and producing wells
- Operate controls of drill or service rig drilling and hoisting machinery
- Train or arrange for training of crew
- Maintain records of drilling and servicing operations
- Ensure safety procedures are followed.

Oil and gas well loggers, testers and related workers

- Drive well service or wireline truck to well site
- Assemble and attach equipment, tools or recorders to drill stem or wireline to conduct required procedures and tests
- Operate or direct the operation of wireline or unit controls to lower, position and retrieve equipment and instruments
- Operate recorders and computers in mobile testing or logging unit to collect data
- May perform limited data interpretation.

Employment requirements

- Completion of secondary school is usually required.
- Oil and gas well drillers and well servicers require three to six months of formal on-the-job training, college or petroleum industry-approved training courses and four or more years of work experience in subordinate rig crew positions.
- A college diploma in drilling may be required.
- Offshore work requires several years of experience in an equivalent position on land.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) and a special oil well operator (boiler) certificate are required.

- Oil and gas well loggers, testers and related workers require three to six months of formal on-the-job training and several years of experience in subordinate logging and testing positions or on drilling and servicing rigs.
- Completion of a college program in electronics or engineering technology may be required for open hole well logging.
- A provincial blaster's licence, and seismic blaster and oil well blaster certification are required for well perforation services.
- Trade certification for rig technician is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, Manitoba, Saskatchewan, British Columbia and the Northwest Territories.
- Red Seal endorsement is also available to qualified rig technicians upon successful completion of the interprovincial Red Seal examination.

Additional information

- Mobility between jobs on drilling and service rigs is limited by the differences in the machinery, tools and operations performed, but mobility is possible especially from drilling to service rigs.
- Progression to crew supervisor or manager is possible with experience and additional education and training.
- The Red Seal endorsement allows for interprovincial mobility.

8311 Logging machinery operators

This minor group comprises logging machinery operators. They are employed by logging companies and contractors.

83110 Logging machinery operators

Logging machinery operators operate cable yarding systems, mechanical harvesters and forwarders and mechanical tree processors and loaders to fell, yard and process trees at logging sites. They are employed by logging companies and contractors.

Illustrative example(s)

- chipping machine operator
- delimber operator
- feller buncher operator
- feller forwarder operator
- grapple operator - logging
- linehorse operator
- loader operator - logging
- log processor operator
- rigging slinger - logging
- shortwood harvester operator
- slasher operator - logging
- steel spar operator - logging
- treelength forwarder operator
- yarder operator - logging

Exclusion(s)

- Chain saw and skidder operators (84110)
- Heavy equipment operators (73400)
- Silviculture and forestry workers (84111)
- Supervisors, logging and forestry (82010)
- Transport truck drivers (73300)

Main duties

This group performs some or all of the following duties:

Cable yarding system operators

- Operate machines to transport trees from logging areas to landing or log loading sites in mountainous terrain in western Canada.

Mechanical harvester and forwarder operators

- Assess site and terrain and drive heavy equipment to perform a combination of felling, slashing, bucking, bunching and forwarding operations at logging areas.

Mechanical tree processor and loader operators

- Operate a variety of machines which perform a combination of slashing, bucking, chipping, sorting and loading logs or trees at landing sites.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training from three to 16 months is provided, depending on the complexity of machinery operated and the type of woodlands operation.
- Experience requirements vary depending on the complexity of machinery operated.
- Mechanical harvester and forwarder operators may require logging experience as a chain saw and skidder operator.
- Feller buncher operators and cable yarder operators usually require three to five years of logging experience.
- Mechanical tree processor and loader operators usually require one to three years of logging experience.
- Certification as a heavy equipment operator may be required.
- Company certification for mobile logging machinery operation may be required.
- Provincial air brake certification may be required in British Columbia, depending on the type of equipment operated.
- Workplace hazardous materials information system (WHMIS) and first aid certificates may be required.
- Knowledge of tree harvesting regulations is required.

Additional information

- There is some mobility among jobs in this group from the less complex to more complex machinery operation.
- There is some mobility between employers, particularly in similar types of woodland operations.
- Self-employment as a logging contractor is possible with investment in equipment.

- Logging machinery operators may perform minor repairs and maintenance on their equipment.
- Progression to logging and forestry supervisory positions is possible with experience.

8312 Fishing vessel masters and fishermen/women

This minor group comprises fishing vessel masters and fishermen/women. They are usually self-employed owner-operators of fishing vessels. They may also be employed by establishments engaged in operating commercial fishing vessels.

83120 Fishing masters and officers

Fishing masters and officers manage and operate saltwater and freshwater fishing vessels greater than 100 gross tonnes to pursue and land fish and other marine life. They are employed by establishments engaged in operating commercial fishing vessels.

Illustrative example(s)

- fishing vessel boatswain
- fishing vessel deck officer
- fishing vessel first mate
- fishing vessel master
- offshore fishing vessel captain
- trawler captain

Exclusion(s)

- Deck officers, water transport (72602)
- Fishermen/women (83121)
- Fishing vessel chief engineer (See 72603-Engineer officers, water transport)

Main duties

This group performs some or all of the following duties:

- Command fishing vessels to catch fish and other marine life
- Determine areas for fishing, plot courses and compute navigational positions using compasses, charts, tables and other aids
- Steer vessels and operate navigational instruments and electronic fishing aids such as echo sounders and chart plotters
- Direct fishing operations and supervise crew activities
- Record fishing progress, crew activities, weather and sea conditions on ship's log
- Select and train vessel crews.

Employment requirements

- Some secondary school education is usually required.
- One to two years of experience as a fishing vessel deckhand is required.
- Captains require one year of service as officer in charge of the watch.
- A Fishing Master's Certificate is required for all occupations in this unit group.
- Marine Emergency Duties Certificate is required by Transport Canada.

- A valid Fishing Vessel Operator Certificate is required for all occupations in this unit group.
- A commercial fishing licence is required.

Additional information

- Completion of Transport Canada examinations is required to advance from Fishing Master Class IV through Class I. Training programs are provided in provincial training centres.
- Progression to merchant or government vessel officer positions (which require a Marine Officer Certificate) is possible with additional training and experience.

83121 Fishermen/women

Fishermen/women operate fishing vessels less than 100 gross tonnes to pursue and land fish and other marine life. They are usually self-employed owner-operators of fishing vessels.

Illustrative example(s)

- fisherman/woman
- fishing vessel skipper
- inshore fisherman/woman
- lobster fisherman/woman
- longliner fisherman/woman
- seiner fisherman/woman

Inclusion(s)

- seaweed dragger
- shellfish harvester operator

Exclusion(s)

- Fishing masters and officers (83120)
- Fishing vessel deckhands (84121)

Main duties

This group performs some or all of the following duties:

- Operate fishing vessel to pursue and catch fish and other marine life
- Select area for fishing, plot courses and compute navigational positions using compasses and charts or electronic fishing aids
- Steer vessel and operate navigational instruments
- Operate fishing gear, direct fishing operation and supervise fishing crew members
- Maintain engine, fishing gear and other on-board equipment
- Record fishing activities, weather and sea conditions
- Estimate costs of operations and plan budget for each fishing season
- Establish fish marketing plan and keep records of all financial transactions
- May transport fish to processing plants or fish buyers.

Employment requirements

- Several years of experience as fishing vessel crew member or helper are usually required.
- Marine Emergency Duties Certificate is required by Transport Canada.
- A valid Fishing Vessel Operator Certificate is required.
- A commercial fishing licence is required.
- Licences are required for each species of fish pursued.
- Trade certification for fish harvesters is available, but voluntary, in Newfoundland and Labrador.

Additional information

- Progression to master or mate on fishing vessels over 100 gross tonnes is possible with additional training, licensing and experience.

84 Workers in natural resources, agriculture and related production

This major group comprises workers in natural resources, agriculture and related production. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

841 Workers in natural resources and fisheries

This sub-major group comprises workers in natural resources and fisheries, including mine service workers and operators in oil and gas drilling; logging and forestry workers; and workers in agriculture and fishing occupations.

8410 Mine service workers and operators in oil and gas drilling

This minor group comprises mine service workers and operators in oil and gas drilling, including underground mine service and support workers, and oil and gas well drilling and related workers and services operators. They are employed by coal, metal and non-metallic mineral mines; drilling and well service contractors; and petroleum producing companies.

84100 Underground mine service and support workers

Underground mine service and support workers perform a range of duties related to the operation of orepasses, chutes and conveyor systems, the construction and support of underground structures, passages and roadways, and the supply of materials and supplies to support underground mining. They are employed by coal, metal and non-metallic mineral mines.

Illustrative example(s)

- backfiller - underground mining
- blaster helper - underground mining
- cage tender
- conveyor operator - underground mining
- crusher operator - underground mining
- driller helper - underground mining
- haulage man/woman - underground mining
- lamp keeper - underground mining

- materialman/woman - underground mining
- mine construction worker
- orepass tender - underground mining
- pipeworker - underground mining
- raise miner helper
- skip tender
- timberman/woman - underground mining
- trainman/woman - underground mining

Exclusion(s)

- Drillers and blasters - surface mining, quarrying and construction (73402)
- Mine labourers (85110)
- Underground production and development miners (83100)

Main duties

This group performs some or all of the following duties:

- Operate and maintain ore chutes or conveyor systems to control flow of ore or coal in underground mine
- Operate construction equipment such as bulldozer, grader or backhoe to build and maintain underground passages and haulageways
- Construct and repair wood or metal supports and structures such as bulkheads, platforms, drift doors and chutes using construction and mining tools
- Attach and extend ventilation and water pipes and related mine services
- Assist miners in setting up and operating various drills and other mining machinery
- Supply and maintain backfill distribution of sand, rock or other materials
- Operate diesel or electric track haulage equipment such as ore trains to distribute personnel and supplies and to convey ore from orepass to primary crusher or skip
- Maintain supply storage areas and maintain equipment and supplies such as explosives, drill bits, fire extinguishers, lamps and batteries
- Perform routine maintenance of machinery.

Employment requirements

- Completion of secondary school is usually required.
- Previous formal training of up to six weeks followed by periods of on-the-job training as a helper or in support occupations is usually required.
- Previous experience as a mine labourer is usually required.
- May be certified in the basic common core program in Ontario.
- Company licensing or certification is often required for occupations in this unit group.

Additional information

- Mobility is possible to other occupational groups in underground mining.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.
- Mobility between these sectors is somewhat limited by differences in production technologies.

84101 Oil and gas well drilling and related workers and services operators

Oil and gas well drilling workers operate drilling and service rig machinery as intermediate members of the rig crew. Oil and gas well services operators drive trucks and operate specialized hydraulic pumping systems to place cement in wells or to treat wells with chemicals, sand mixtures or gases to stimulate production. They are employed by drilling and well service contractors and by petroleum producing companies.

Illustrative example(s)

- acidizer - oil field services
- blender operator - oil field services
- control room operator - offshore drilling
- derrickhand
- motorhand - oil and gas drilling
- offshore drilling rig technician
- oil well cementer - oil field services
- pumper operator - oil field services

Inclusion(s)

- seismic buried facilities locator

Exclusion(s)

- Contractors and supervisors, oil and gas drilling and services (82021)
- Oil and gas drilling, servicing and related labourers (85111)
- Oil and gas well drillers, servicers, testers and related workers (83101)

Main duties

This group performs some or all of the following duties:

Oil and gas well drilling workers

- Use specialized equipment, information and maps to determine and document the location of buried pipelines and other utilities in preparation for seismic exploration and drilling activities
- Align and manipulate sections of pipe or drill stem from platform on rig derrick during removal and replacement of strings of pipe, or drill stem and drill bit
- Operate and maintain drilling mud systems and pumps during drilling, and mix mud, chemicals and additives
- Record mud flows and volumes and take samples
- Operate and maintain drilling rig diesel motors, transmissions and other mechanical equipment
- Assist in setting up, taking down and transporting drilling and service rigs
- Supervise floorhands and labourers.

Oil and gas well services operators

- Drive well services truck to well site
- Assemble pumping equipment and attach pumps and hoses to wellhead
- Operate hydraulic pumping systems to pump chemicals, gases, sand, cement or other material into well

- Read gauges to monitor pressure, density, rate and concentration and adjust pumping procedure as required
- May mix chemicals and cements.

Employment requirements

- Completion of secondary school is required.
- Training of up to three months with an experienced operator is required for oil and gas well services operators.
- Completion of petroleum industry-approved training courses may be required.
- One year of experience as a floorhand, assistant or labourer is usually required.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), cryogenic safety or in other safety concerns may be required.
- Rig technician certification for motorhands and derrickhands may be required by some employers.
- Oil and gas well services operators require a driver's license appropriate to the class of vehicle being driven.

Additional information

- Progression to oil and gas well driller or service rig operator is possible with experience.
- Progression to supervisor of well services is possible for gas and oil well services operators.

8411 Logging and forestry workers

This minor group comprises logging and forestry workers, including chain saw and skidder operators, and silviculture and forestry workers. They are employed by logging companies, contractors, and government services.

84110 Chain saw and skidder operators

Chain saw and skidder operators operate chain saws to fell, delimb and buck trees, and operate skidders to move or yard the felled trees from the logging site to the landing area for processing and transportation. They are employed by logging companies and contractors.

Illustrative example(s)

- bucker
- chain saw operator - logging
- faller
- feller
- forest worker - logging
- grapple skidder operator
- landingman/woman
- pieceworker - logging
- skidder operator

Exclusion(s)

- Logging and forestry labourers (85120)
- Logging machinery operators (83110)
- Silviculture and forestry workers (84111)

Main duties

This group performs some or all of the following duties:

- Operate chain saw to fell, delimb and buck trees at the logging site and loading area
- Operate cable, or grapple skidder to move or yard the felled trees from the logging site to the landing area for processing and transportation
- Assess site, terrain and weather conditions before felling and yarding trees
- May work as member of a team rotating between chain saw operation and skidder operation
- May maintain and perform minor repairs on skidders, chain saws and other equipment.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college program for forest workers may be required.
- Formal training in chain saw operation and maintenance and several months of on-the-job training are usually provided.
- Previous experience as a logging and forestry labourer or logging machine operator may be required. Experience requirements vary depending on the type and location of woodlands operations.
- Provincial certification or a forest worker program certificate is required in some provinces.
- Trade certification for fallers is available, but voluntary in Quebec.
- Workplace hazardous materials information system (WHMIS) and first aid certificates may be required.

Additional information

- There is a trend toward company certification of chain saw operators in larger companies.
- Chain saw operators often must own and maintain their own chain saw.
- There is some mobility among jobs within this unit group as chain saw and skidder operators often work in teams and rotate jobs.
- Mobility may be limited from eastern and central forest zones to western forest zones where tree size or steep terrain may require different cutting and yarding methods.
- Progression to logging machinery operator positions is possible with experience.
- Progression to supervisory positions or self-employment as a logging contractor is possible with experience.

84111 Silviculture and forestry workers

Silviculture and forestry workers perform a variety of duties related to reforestation and to the management, improvement and conservation of forest lands. They are employed by logging companies, contractors and government services.

Illustrative example(s)

- clearing saw operator - forestry
- forest firefighter

- forestry crew worker
- pieceworker - silviculture
- scarification equipment operator - forestry
- silviculture worker
- thinning saw operator

Exclusion(s)

- Arborist (See 22114-Landscape and horticulture technicians and specialists)
- Chain saw and skidder operators (84110)
- Forest nursery labourer (See 85103-Nursery and greenhouse labourers)
- Forestry professionals (21111)
- Forestry technologists and technicians (22112)
- Logging and forestry labourers (85120)
- Supervisors, logging and forestry (82010)

Main duties

This group performs some or all of the following duties:

- Assess site, select seedlings and plant trees using manual planting tools in reforestation areas
- Operate power thinning saw to thin and space trees in reforestation areas
- Operate chain saw to thin young forest stands
- Control weeds and undergrowth in regenerating forest stands using manual tools and chemicals
- Complete firefighting reports and maintain firefighting equipment
- Dig trenches, cut trees, pump water on burning areas to fight forest fires under direction of fire suppression officer or forestry technician
- Operate and maintain a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated
- Perform other silviculture duties such as collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations.

Employment requirements

- Completion of secondary school may be required.
- Completion of a college or other specialized program for silviculture workers or forestry crew workers may be required.
- Formal training in power saw operation and maintenance and several months of on-the-job training are usually provided.
- Experience as a logging and forestry labourer may be required.
- A chemicals application licence is required.
- Workplace hazardous materials information system (WHMIS) and transportation of dangerous goods (TDG) certificates may be required.
- A silvicultural worker's licence may be required.

Additional information

- There is some mobility among jobs in this unit group.
- Progression to supervisory positions is possible with experience.
- Progression to forestry technician or technologist is possible with additional education and training.

8412 Workers in agriculture and fishing occupations

This minor group comprises workers in agriculture and fishing occupations, including specialized livestock workers; farm machinery operators; and fishing vessel deckhands. They are employed by commercial fishing operators or self-employed owner-operators of fishing vessels; crop, livestock, fruit, vegetable and specialty farms; or they may be self-employed.

84120 Specialized livestock workers and farm machinery operators

Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry, swine and other livestock farms. Farm machinery operators operate and maintain farm machinery and equipment. They are employed on crop, livestock, fruit, vegetable and specialty farms.

Illustrative example(s)

- artificial inseminator
- cattle herdsman
- dairy herdsman
- farm machinery operator
- harvester machine operator
- horse trainer
- pork production technician
- swine herdsman

Exclusion(s)

- Agricultural service contractors and farm supervisors (82030)
- Harvesting labourers (85101)
- Livestock labourers (85100)
- Managers in agriculture (80020)

Main duties

This group performs some or all of the following duties:

Specialized livestock workers

- Perform or assist in performing animal husbandry activities
- Implement pasture or pen breeding programs
- Develop and implement feeding programs
- Follow safety and bio-security procedures
- Detect and treat certain diseases and health problems in livestock
- Maintain livestock performance records
- Select livestock for sale
- Set and monitor water lines, air flow and temperature in barns, pens and chicken coops

- Train horses
- Maintain inventory and order materials as required
- May be responsible for the collection of semen and the insemination of donor females
- May supervise general farm labourers.

Farm machinery operators

- Operate farm equipment and machinery to till soil, plant, cultivate and harvest crops, and load and unload crops or containers of materials
- Perform equipment and machinery maintenance
- Monitor equipment and machinery operations to detect malfunctions
- Follow safety procedures
- May perform minor repairs to farm equipment and machinery.

Employment requirements

- Specialized livestock workers may require a college certificate or other specialized training in agriculture or livestock husbandry.
- There are no specific education or training requirements for farm machinery operators. However, a college certificate or specialized courses related to farming, such as farm equipment mechanics, agricultural welding and pesticide application, are available.
- Basic farm knowledge, usually obtained from working on a family farm, may be required for employment.
- A course or certificate in first aid may be required.

Additional information

- Specialized livestock workers usually specialize in one type of farm animal such as beef cattle, dairy cattle, poultry or swine.
- Progression to supervisory positions is possible with experience.

84121 Fishing vessel deckhands

Fishing vessel deckhands perform a variety of manual tasks on commercial fishing voyages, and maintain fishing vessels. They are employed by establishments that operate commercial fishing vessels and by self-employed fishermen/women.

Illustrative example(s)

- fishing vessel crewman/woman
- fishing vessel deckhand
- fishing vessel icer
- fishing vessel netmender
- seiner deckhand
- trawlerman/woman

Exclusion(s)

- Deck officers, water transport (72602)
- Fishermen/women (83121)
- Fishing masters and officers (83120)

Main duties

This group performs some or all of the following duties:

- Prepare nets, lines and other fishing tackle, and operate fishing gear to catch fish and other marine life
- Sort, return protected species to the water, clean and pack fish in ice and stow catch in hold
- Repair nets, splice ropes and maintain fishing gear and other deck equipment
- Clean deck surfaces and fish hold
- Handle anchors and mooring lines during docking and undocking procedures
- May steer vessels to and from fishing areas
- May prepare and cook meals for crew members.

Employment requirements

- There are no specific educational requirements.
- On-the-job training is provided.
- Marine Emergency Duties certificate is required by Transport Canada.
- A deckhand training program may be required.
- Trawlermen/women require at least one year of experience.
- Fishing vessel deckhands require a commercial fishing licence.

Additional information

- Fishing vessel deckhands may become skippers upon acquiring an entry licence and a boat.
- Fishing vessel deckhands may progress to watchkeeper or mate positions with additional training.

85 Harvesting, landscaping and natural resources labourers

This major group comprises harvesting, landscaping and natural resources labourers. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

851 Harvesting, landscaping and natural resources labourers

This sub-major group comprises harvesting, landscaping and natural resources labourers, including agriculture, horticulture and harvesting labourers and related occupations; mine and oil and gas drilling, services and related labourers; and logging, forestry, landscaping and other related labourers.

8510 Agriculture, horticulture and harvesting labourers and related occupations

This minor group comprises agriculture, horticulture and harvesting labourers and related occupations, including livestock labourers; harvesting labourers; aquaculture and marine harvest labourers; nursery and greenhouse labourers; and trappers and hunters. They are employed by farms; nurseries and greenhouses; landscaping and lawn care companies, golf courses, cemeteries, and landscaping operations of public works departments and private establishments; public and private fish hatcheries and commercial aquatic farms; or they may be self-employed.

85100 Livestock labourers

Livestock labourers assist other farm workers to raise cattle, poultry and other animals, to help carry out feeding, health and breeding programs, to process animal products and to assist in the maintenance and repair of farm equipment and buildings. They are employed on livestock farms.

Illustrative example(s)

- beef cattle farm worker
- cattle ranch labourer
- dairy farm worker
- livestock labourer
- poultry farm worker

Exclusion(s)

- Agricultural service contractors and farm supervisors (82030)
- Managers in agriculture (80020)
- Specialized livestock workers and farm machinery operators (84120)

Main duties

This group performs some or all of the following duties:

- Feed and tend livestock, poultry and other animals
- Milk animals such as cows and goats, manually or with a machine
- Sort, brand and handle animals
- Maintain or assist in the maintenance of facilities and farm infrastructure including cleaning stables, barns, barnyards and pens
- Assist with breeding activities
- May monitor health of animals and provide care
- May prepare animals for transportation
- May operate and maintain farm machinery and equipment.

Employment requirements

- There are no specific education or training requirements.

Additional information

- Progression to other livestock worker positions is possible with experience.

85101 Harvesting labourers

Harvesting labourers and related workers assist other farm workers to plant, harvest, sort and pack crops. They participate in soil preparation, irrigation and crop planting, spraying and thinning. They are employed on fruit, vegetable and specialty crop farms.

Illustrative example(s)

- apple picker
- berry picker
- crop farm labourer - harvesting
- fruit picker
- fruit sorter - farm
- harvest hand
- vegetable packer - farm

Exclusion(s)

- Agricultural service contractors and farm supervisors (82030)
- Managers in agriculture (80020)
- Specialized livestock workers and farm machinery operators (84120)

Main duties

This group performs some or all of the following duties:

- Prepare and irrigate soil
- Plant, fertilize, thin and harvest crops
- Pick row and orchard crops
- Sort, weigh and pack fruit and vegetables at the farm
- Load, unload and transfer crates, supplies, farm produce and products for transport
- Clean up racks, trays, and harvest bins and general clean-up of growing, producing and packing areas
- Assist with general farm maintenance and maintenance of equipment and tools
- May assist in preparing garden beds for planting
- May write daily progress reports of inventory harvested.

Employment requirements

- There are no specific education or training requirements.

Additional information

- Progression to other farm worker positions is possible with experience.

85102 Aquaculture and marine harvest labourers

Aquaculture and marine harvest labourers include aquaculture support workers, marine plant gatherers, shellfish diggers and other labourers in aquaculture and fishing. Aquaculture support workers are employed by public or private fish hatcheries and commercial aquatic farms. Marine plant gatherers and mollusk harvesters may be self-employed.

Illustrative example(s)

- aquaculture support worker
- clam digger
- dulse gatherer
- fish farm helper
- fish tagger
- fry marker
- marine plant gatherer
- oyster picker
- sea farm attendant
- seaweed gatherer
- shellfish harvester

Exclusion(s)

- Fishermen/women (83121)
- Fishing vessel deckhands (84121)
- Managers in aquaculture (80022)

Main duties

This group performs some or all of the following duties:

- Assist aquaculture technicians in the operation of fish hatcheries or other aquatic farms
- Feed aquaculture stocks, vaccinate stocks, perform culling and marking or banding techniques and report any observed irregularities in stocks
- Operate, maintain and clean pumps, filters, tanks and other aquaculture equipment and clean and maintain aquaculture enclosures
- Keep daily records of water flow and fish, shellfish and marine plant samples
- Grade and weigh aquaculture stocks
- Prepare aquaculture stocks for market
- Rake seaweed, dulse or Irish moss from beach, rocks or shallow water and load into a cart, wagon or other receptacles
- Spread gatherings to dry and remove foreign objects
- Transport gatherings to processing plant
- Dig clams from beds with spades, forks or other instruments, or collect other mollusks
- Clean, sort and transport mollusks to market
- May operate boats for aquaculture operations.

Employment requirements

- Some secondary school education is usually required.
- Shellfish harvesters require commercial fishing licences.
- Marine Emergency Duties certificate may be required for some occupations in this unit group.

85103 Nursery and greenhouse labourers

Nursery and greenhouse labourers plant, cultivate and harvest trees, shrubs, flowers and plants, and serve nursery and greenhouse customers. They are employed in indoor and outdoor nurseries and greenhouses.

Illustrative example(s)

- forest nursery labourer
- greenhouse labourer
- horticulture labourer
- hothouse labourer
- hydroponics worker
- nursery labourer

Exclusion(s)

- Contractors and supervisors, landscaping, grounds maintenance and horticulture services (82031)
- Harvesting labourers (85101)

- Landscaping and grounds maintenance labourers (85121)
- Managers in horticulture (80021)
- Silviculture and forestry workers (84111)

Main duties

This group performs some or all of the following duties:

- Prepare soil; plant bulbs, seeds and cuttings; graft and bud plants; and transplant seedlings and rooted cuttings
- Monitor plants for healthy growth and potential weed, insect, disease, and fertilizer problems in greenhouse crops
- Spray trees, shrubs, flowers and plants to prevent disease and pests
- Position and regulate greenhouse and outdoor irrigation systems to water plants and fields
- Dig, cut and transplant trees, shrubs, flowers and plants and prepare them for sale
- Provide information to customers on gardening, the use of various garden tools and products and the care of trees, shrubs, flowers, plants and lawns
- May operate tractors and other machinery and equipment to fertilize, cultivate, harvest and spray fields and plants
- Maintain inventory and order materials as required
- Clean working areas.

Employment requirements

- Completion of secondary school may be required.
- Completion of college courses in horticulture or a related field may be required.
- On-the-job training is provided.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

Additional information

- Progression to supervisory positions, such as greenhouse supervisor, is possible with experience.

85104 Trappers and hunters

Trappers and hunters trap and hunt wild animals for pelts or live sale. They are usually self-employed and work on a seasonal basis.

Illustrative example(s)

- fur trapper
- game trapper
- hunter
- sealer
- trapper

Exclusion(s)

- Animal control trapper AND nuisance control trapper (See 73202-Pest controllers and fumigators)
- Hunting guide (See 64322-Outdoor sport and recreational guides)

Main duties

This group performs some or all of the following duties:

- Set traps with bait and position traps along trails
- Operate boats or snowmobiles or travel on foot, snowshoes or skis to patrol trapline or to reach hunting areas
- Pursue animals by observing and recognizing tracks, trails, animal droppings or broken foliage
- Remove catch and reset traps and snares
- Kill and skin catch for pelts, and treat and pack pelts for marketing or for transport to public auctions
- Kill wild animals using firearms or other weapons
- Trap live animals for sale to buyers or for relocation purposes
- Maintain and repair trapping and hunting equipment
- Maintain trails and access to trapping lines or hunting regions
- Trap designated animals for bounty or other control programs
- May train dogs for hunting
- May monitor animal population in the trapping or hunting regions to ensure future sustainability.

Employment requirements

- Completion of trapping or hunting courses may be required in some provinces.
- A provincial trapping or hunting licence is required.

Additional information

- In some jurisdictions, trappers may be allocated trapping areas based on their experience.
- Trappers and hunters may specialize in trapping or hunting a particular kind of animal.

8511 Mine and oil and gas drilling, services and related labourers

This minor group comprises mine and oil and gas drilling, services and related labourers. They are employed by coal, metal and non-metallic mineral mines; drilling and well servicing contractors and petroleum producing companies.

85110 Mine labourers

Mine labourers carry out a variety of general labouring duties to assist in the extraction of coal, minerals and ore, and in other services in support of underground mining. They are employed by coal, metal and non-metallic mineral mines.

Illustrative example(s)

- chute puller
- mine helper
- mine labourer
- miner helper - underground mining
- pit scaler - underground mining
- shoveller - underground mining
- underground labourer - mining

Exclusion(s)

- Underground mine service and support workers (84100)
- Underground production and development miners (83100)

Main duties

This group performs some or all of the following duties:

- Assist other mine workers in maintaining or constructing underground installations
- Clean underground rooms, roadways, working areas and mining equipment and conveyances using hand tools
- Load, move, sort and pile materials and supplies
- Clear spills of ore or coal using hand and power tools
- May cut core and prepare core sample boxes in support of mine exploration
- Assist other workers in prospecting for mineral deposits and perform various tasks related to general geophysical surveys.

Employment requirements

- Completion of secondary school is usually required.
- A short period of introductory training is provided.
- In Ontario, mine labourers are registered in the basic common core program.

Additional information

- There is mobility among jobs in this group.
- Progression to underground production and development miner or underground mine service and support worker is possible with experience and training.

85111 Oil and gas drilling, servicing and related labourers

Oil and gas drilling, servicing and related labourers carry out a variety of general labouring duties and operate equipment to assist in the drilling and servicing of oil and gas wells. This unit group also includes labourers who assist in geophysical prospecting for oil and gas. They are employed by drilling and well servicing contractors and by petroleum producing companies.

Illustrative example(s)

- floorman/woman - oil and gas drilling
- leasehand
- oil field labourer
- roughneck
- roustabout
- service rig helper
- shakerhand
- swamper - oil and gas
- well treatment helper
- wireline helper

Inclusion(s)

- seismic survey helper

Exclusion(s)

- Oil and gas well drillers, servicers, testers and related workers (83101)
- Oil and gas well drilling and related workers and services operators (84101)

Main duties

This group performs some or all of the following duties:

- Manipulate sections of pipe or drill stem at the rig floor during drilling and during the removal and replacement of strings of pipe or drill stem and drill bit
- Maintain drilling equipment on the drill floor
- Handle, sort and move drill tools, pipe, cement and other materials
- Clean up rig areas
- Assist in setting up, taking down and transporting drilling and service rigs and service equipment
- May drive trucks to transport materials and well service equipment.

Employment requirements

- Completion of secondary school may be required.
- Completion of introductory college or petroleum industry-approved training courses may be required.
- Certificates in hydrogen sulphide awareness, workplace hazardous materials information system (WHMIS) or transportation of dangerous goods (TDG) may be required.

Additional information

- Progression to more senior operating positions is possible with experience.

8512 Logging, forestry, landscaping and other related labourers

This minor group comprises logging, forestry, landscaping and other related labourers. They are employed by logging, landscaping and grounds maintenance companies and contractors.

85120 Logging and forestry labourers

Logging and forestry labourers perform a variety of manual tasks such as attaching choker cables to logs, planting trees, clearing brush, spraying chemicals, cleaning up landing areas and assisting other workers in woodlands operations. They are employed by logging companies and contractors.

Illustrative example(s)

- chokerman/woman
- forestry labourer
- logging labourer
- seasonal tree planter
- swamper - logging and forestry

Exclusion(s)

- Chain saw and skidder operators (84110)
- Logging machinery operators (83110)
- Silviculture and forestry workers (84111)

Main duties

This group performs some or all of the following duties:

- Assist other workers at logging sites
- Attach chokers or cables to felled trees for yarding
- Plant trees using manual tools
- Spray herbicides from the ground using manual spraying equipment
- Clear trails through woodlands using chain saws
- Clean up landing areas at logging sites.

Employment requirements

- Completion of secondary school may be required.
- Completion of pre-employment safety courses may be required.
- Several weeks of formal and on-the-job training are provided.
- Workplace hazardous materials information system (WHMIS) certificate may be required.
- Chemicals application licence may be required.

Additional information

- There is mobility among jobs in this unit group.
- Progression to other positions, such as silviculture and forestry worker, chain saw and skidder operator or logging machinery operator, is possible with experience.

85121 Landscaping and grounds maintenance labourers

Landscaping and grounds maintenance labourers perform work to assist in the construction of landscapes and related structures, and to maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, landscaped interiors and other landscaped areas. They are employed by landscaping and lawn care companies, golf courses, cemeteries, and landscaping operations of public works departments and private establishments.

Illustrative example(s)

- bulb planter - landscaping
- cemetery labourer
- gardening helper
- golf course worker
- grass cutter
- grounds maintenance worker
- landscape labourer
- park maintenance labourer
- park maintenance worker

- sod layer
- transplanter - landscape maintenance

Exclusion(s)

- Landscape and horticulture technicians and specialists (22114)
- Nursery and greenhouse labourers (85103)
- Other trades helpers and labourers (75119)
- Public works and maintenance labourers (75212)
- Public works maintenance equipment operators and related workers (74205)
- Residential and commercial installers and servicers (73200)

Main duties

This group performs some or all of the following duties:

- Spread top soil, lay sod, plant flowers, grass, shrubs and trees and perform other duties to assist with the construction of a landscape and related structures
- Cut grass, rake, aerate, dethatch, fertilize and water lawns, weed gardens, prune shrubs and trees and perform other maintenance duties as directed by supervisor
- Maintain lawns and grass along roadsides
- Operate and maintain power mowers, tractors, chain saws, electric clippers, sod cutters, pruning saws, snowblowers and other landscape maintenance equipment
- Spray and dust trees, shrubs, lawns and gardens, as directed, to control insects and disease
- Perform other manual duties to clean and maintain landscaped environments.

Employment requirements

- Some secondary school education may be required.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.

Additional information

- Progression to technical or supervisory occupations in landscaping and horticulture is possible with additional training or experience.

9 Occupations in manufacturing and utilities

This broad category comprises middle management occupations in manufacturing and utilities, as well as occupations concerned with supervisory, production and labouring in manufacturing, processing and utilities.

90 Middle management occupations in manufacturing and utilities

This major group comprises middle management occupations in manufacturing and utilities. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 0. The occupations classified under TEER 0, as those included in this group with zero (0) as the second digit of their code, are considered management occupations.

900 Middle management occupations in manufacturing and utilities

This sub-major group comprises middle management occupations in manufacturing and utilities.

9001 Managers in manufacturing and utilities

This minor group comprises managers in manufacturing and utilities. They are employed by manufacturing companies and in public and private sector utilities and heating fuel distribution companies.

90010 Manufacturing managers

Manufacturing managers plan, organize, direct, control and evaluate the operations of a manufacturing establishment or of a production department within a manufacturing establishment, under the direction of a general manager or other senior manager. They are employed by manufacturing companies.

Illustrative example(s)

- automobile production manager
- clothing factory manager
- dairy plant manager
- distillery manager
- factory superintendent
- foundry manager
- manufacturing manager
- manufacturing operations manager
- manufacturing plant manager
- printing plant manager
- production manager - manufacturing
- textile mill manager
- tire plant manager

Inclusion(s)

- brewmaster

Exclusion(s)

- Facility operation and maintenance managers (70012)
- Managers in transportation (70020)

- Senior managers - construction, transportation, production and utilities (00015)
- Utilities managers (90011)

Main duties

This group performs some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a manufacturing establishment or the operations or production department of a manufacturing establishment
- Develop and implement plans to efficiently use materials, labour and equipment to meet production targets
- Plan and manage the establishment of departmental budget
- Develop production schedules and maintain an inventory of raw materials and finished products
- Plan and implement changes to machinery and equipment, production systems and methods of work
- Direct quality control inspection system and develop production reporting procedures
- Develop equipment maintenance schedules and recommend the replacement of machines
- Hire, supervise and train or oversee training of employees in the use of new equipment or production techniques.

Employment requirements

- Completion of a college or university program in engineering or business administration is usually required.
- Five to ten years of supervisory experience in manufacturing are required.

Additional information

- Progression to senior management positions is possible with experience.

90011 Utilities managers

Utilities managers plan, organize, direct, control and evaluate the operations of utility companies or services of heating fuel distribution companies. The services provided include treatment of water and waste, distribution of water, electricity, natural gas and heating oil to residential, commercial and industrial consumers, waste disposal and waste recycling. They are employed in public and private sector utilities and in heating fuel distribution companies.

Illustrative example(s)

- director of waste management
- director of water pollution control
- distribution systems director - utilities
- electric generating plant manager
- electric power plant manager
- electrical power transmission operations director
- gas supply operations manager
- liquid waste facility manager
- refined petroleum products distribution manager
- sewage treatment plant manager
- water filtration plant manager
- water supply director

Exclusion(s)

- Facility operation and maintenance managers (70012)
- Senior managers - construction, transportation, production and utilities (00015)

Main duties

This group performs some or all of the following duties:

Water supply managers

- Manage water filtration, purification processes and pumping operations, schedule and oversee the maintenance of plant equipment and prepare reports on water supply and water quality.

Electrical power distribution managers

- Manage the operations of electrical power distribution systems including generating stations, transmission stations and distribution networks. They may also plan and direct the distribution activities of a municipal electrical power establishment.

Natural gas and petroleum supply managers

- Manage the delivery of gas to consumers, monitor supply inventories and control the recording of injections and withdrawals
- Plan and direct the distribution of heating oil products to retail distributors and regional storage sites.

Water pollution control managers

- Manage the operations of a sewage treatment plant, schedule and direct maintenance of plant equipment, and prepare reports on water quality.

Waste systems managers

- Manage solid or liquid waste collection and disposal systems, train drivers in how to handle waste and ensure safe operation of disposal facilities.

Employment requirements

- A bachelor's degree or college diploma in an appropriate discipline is required. For example, electrical engineering is required for managers of transmission lines, and water resource technology for water supply managers.
- Several years of experience as a supervisor in a related utilities operations department are required.
- A professional engineer certification is usually required for managers of utility operations involved in the transmission and distribution of electrical power, and natural gas and heating oil.

Additional information

- Progression to senior management positions in the utility industry is possible with experience.

92 Processing, manufacturing and utilities supervisors and utilities operators and controllers

This major group comprises processing, manufacturing and utilities supervisors and utilities operators and controllers. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 2. Occupations classified in TEER 2, as those included in this group with a 2 as the second digit of their code, typically require completion of a post-secondary education program of two to three years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of two to five

years; or supervisory or significant safety responsibilities; or the accumulation of several years of experience in a related occupation found in TEER 3, when applicable (TEER 3 includes occupations with a 3 as a second digit in their code).

920 Supervisors, processing, manufacturing, assembly and fabrication occupations

This sub-major group comprises supervisors, processing, manufacturing, assembly and fabrication occupations.

9201 Supervisors, processing and manufacturing occupations

This minor group comprises supervisors, processing and manufacturing occupations, including supervisors, mineral and metal processing; supervisors, petroleum, gas and chemical processing and utilities; supervisors, food and beverage processing; supervisors, plastic and rubber products manufacturing; supervisors, forest products processing; and supervisors, textile, fabric, fur and leather products processing and manufacturing. They are employed by mineral ore and metal processing plants, cement processing plants, clay, glass and stone processing plants and foundries; petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, electric power utilities, and water and waste treatment utilities; fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and associated products processing establishments; rubber and plastic products manufacturing companies and in plastic parts divisions of other manufacturing companies; pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies; and textile manufacturing companies, tanneries and other manufacturers of fabric, fur and leather products.

92010 Supervisors, mineral and metal processing

Supervisors in mineral and metal processing supervise and coordinate the activities of workers engaged in mineral and metal processing and manufacturing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Illustrative example(s)

- blast furnace foreman/woman
- brick and tile foreman/woman
- cement processing supervisor
- coremaking foreman/woman - foundry
- die casting supervisor
- glass cutters supervisor
- lead refining foreman/woman
- lime preparation foreman/woman
- melting and roasting department supervisor
- ore milling supervisor
- roll shop operations coach - steel mill
- steel mill shift coordinator

Exclusion(s)

- Supervisors, mining and quarrying (82020)
- Supervisors, other mechanical and metal products manufacturing (92023)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers engaged in the following duties: operating single or multi-function mineral and metal processing machinery and equipment; operating mouldmaking and coremaking machines or manually make moulds and cores; operating glass process control, forming and finishing machines; operating concrete, clay and stone forming and finishing machines; and operating cement process control machines and equipment
- Establish methods to meet work schedules and coordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in metallurgy, sciences or a related field may be required for some occupations in this unit group.
- Several years of experience in metal manufacturing or mineral/metal processing environment are usually required.

92011 Supervisors, petroleum, gas and chemical processing and utilities

Supervisors in petroleum, gas and chemical processing and utilities supervise and coordinate the activities of workers in the following unit groups: Central control and process operators, petroleum, gas and chemical processing (93101), Power engineers and power systems operators (92100), Water and waste treatment plant operators (92101), Chemical plant machine operators (94110) and Labourers in chemical products processing and utilities (95102). They are employed by petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, electric power utilities, water and waste treatment utilities and in a range of other industries and institutions.

Illustrative example(s)

- chemical processing supervisor
- cosmetics processing foreman/woman
- natural gas plant foreman/woman
- paint processing foreman/woman
- petroleum refining supervisor
- pharmaceuticals production supervisor
- pipeline operations supervisor
- power station supervisor
- sewage treatment plant supervisor
- specialty chemicals production supervisor
- water purification plant foreman/woman

Exclusion(s)

- Contractors and supervisors, electrical trades and telecommunications occupations (72011)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who operate petroleum refineries, chemical plants, water and waste treatment plants and equipment, pipelines, heating plants and power stations and systems
- Identify, investigate, correct and document potential environmental and safety problems
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Provide information for maintenance plans to ensure that maintenance and production objectives are met
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports and develop and manage operating budget for area of responsibility
- May also supervise, coordinate and schedule the activities of trades workers, labourers or other workers.

Employment requirements

- Completion of secondary school is required.
- Post-secondary education in chemical processing or sciences may be required for some occupations in this unit group.
- Several years of experience as a senior operator in the same company or plant are usually required.
- Some occupations in this unit group may require a specific licence or certification, such as a power engineer licence, refrigeration certification or wastewater treatment certification.
- Solid waste, landfill or compost facility operator certification may be required.

Additional information

- There is some mobility between occupations with similar technological or licensing requirements within this group.

92012 Supervisors, food and beverage processing

Supervisors in food and beverage processing supervise and coordinate the activities of workers who operate processing and packaging machines, and workers who grade food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing establishments.

Illustrative example(s)

- bottling supervisor - food and beverage processing
- brewer supervisor
- fish processing supervisor
- flour milling team supervisor
- food product testers supervisor
- hazard analysis critical control point (HACCP) coordinator

- meat packing supervisor
- packaging supervisor - food and beverage processing
- poultry graders foreman/woman
- production supervisor - food and beverage processing
- tobacco processing supervisor
- vegetable packing supervisor

Exclusion(s)

- Fish and seafood plant workers (94142)
- Fish products inspection supervisor (See 22111-Agricultural and fish products inspectors)
- Food-processing plant manager (See 90010-Manufacturing managers)
- Industrial butchers and meat cutters, poultry preparers and related workers (94141)
- Meat inspection supervisor (See 22111-Agricultural and fish products inspectors)
- Process control and machine operators, food and beverage processing (94140)
- Testers and graders, food and beverage processing (94143)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who process, package, test and grade food and beverage products
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- Hazard analysis critical control point (HACCP) coordinators identify, evaluate, control and prevent hazards at all stages of the food production process.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in microbiology or chemistry may be required for some positions in this group.
- Several years of experience in the food or beverage processing industry are required.
- Hazard analysis critical control point (HACCP) coordinators require HACCP certification and several years of experience in quality assurance of food production.

92013 Supervisors, plastic and rubber products manufacturing

Supervisors in plastic and rubber products manufacturing supervise and coordinate the activities of workers who operate processing machines and who fabricate, assemble and inspect rubber or plastic products. They are employed by rubber and plastic products manufacturing companies and in plastic parts divisions of other manufacturing companies.

Illustrative example(s)

- blow moulding foreman/woman - rubber and plastic manufacturing

- calendering foreman/woman - rubber and plastic manufacturing
- injection moulding foreman/woman - rubber and plastic manufacturing
- injection moulding supervisor - plastic products manufacturing
- plastic products manufacturing supervisor
- rubber products manufacturing supervisor
- tire building supervisor

Exclusion(s)

- Labourers in rubber and plastic products manufacturing (95104)
- Plastic products assemblers, finishers and inspectors (94212)
- Plastics processing machine operators (94111)
- Rubber processing machine operators and related workers (94112)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of production workers who operate processing machines and who fabricate, assemble, finish or inspect plastic or rubber parts and products
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in sciences or plastics technology may be required for some positions in this group.
- Several years of experience as a machine operator or an assembler in rubber or plastic products manufacturing is usually required.

92014 Supervisors, forest products processing

Supervisors in forest products processing supervise and coordinate the activities of workers engaged in pulp and paper production and wood processing and manufacturing. They are employed by pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Illustrative example(s)

- coating room foreman/woman - pulp and paper
- lumber grading foreman/woman - wood processing
- paper converting supervisor
- paper machine foreman/woman
- paper mill foreman/woman

- plywood making foreman/woman
- pulp mill foreman/woman
- sawmill foreman/woman
- shift operating supervisor - pulp and paper
- shingle mill foreman/woman
- tour foreman/woman - pulp and paper
- waferboard foreman/woman
- wood-treating plant foreman/woman

Exclusion(s)

- Manufacturing managers (90010)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who operate pulp and paper mills, paper converting mills, sawmills, planing mills, plywood, waferboard and other wood and paper products mills
- Ensure that systems and equipment are operating efficiently and that proper maintenance and repairs are performed
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions and administer the collective agreement
- Prepare production and other reports
- Monitor safety conditions
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is required.
- A college diploma in pulp and paper technology or a related discipline may be required for some pulp and paper supervisor positions.
- Several years of some combination of formal and on-the-job training are provided.
- Several years of experience in the most senior occupation supervised are often required.
- Certificates, such as lumber grading and industrial first aid, and a competency certificate in natural gas may be required.

Additional information

- Mobility is possible between positions employing similar technology or producing similar products.
- Progression to managerial positions is possible with experience.

92015 Supervisors, textile, fabric, fur and leather products processing and manufacturing

Supervisors in textile, fabric, fur and leather products processing and manufacturing supervise and coordinate the activities of workers engaged in textile, fabric, fur and leather products processing and manufacturing. They are

employed by textile manufacturing companies, tanneries and other manufacturers of fabric, fur and leather products.

Illustrative example(s)

- boot and shoe foreman/woman
- canvas products manufacturing foreman/woman
- dye room supervisor
- embroidery supervisor - fabric products
- fabric-cutting department foreman/woman
- finishing supervisor - textiles
- foreman/woman - textile processing
- fur dressing foreman/woman
- hat and cap makers foreman/woman
- knitting supervisor
- sample room foreman/woman - leather products
- sewing machine operators supervisor
- stitching department supervisor
- tannery foreman/woman

Exclusion(s)

- Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing (9413)
- Master dyer - textiles (See 22100-Chemical technologists and technicians)
- Tailors, dressmakers, furriers and milliners (64200)
- Textile colour technologist (See 22100-Chemical technologists and technicians)
- Textile machine mechanic (See 72400-Construction millwrights and industrial mechanics)
- Textile technician (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Textile technologist (See 22302-Industrial engineering and manufacturing technologists and technicians)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of production workers who operate machines to process natural, synthetic and hybrid textile fibre, yarn and thread; bleach, dye and finish textiles; operate manufacturing machines to cut, stitch and produce fabric, fur or leather garments and other products; and inspect textile products
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in textile technology or a related field may be required for some positions in this group.
- Several years of experience as a worker in the unit group being supervised are usually required.
- Experience may be required in a specific process, or with a specific product or type of equipment.

Additional information

- There is some mobility among supervisory positions in this group.
- Progression to managerial positions is possible with experience.

9202 Supervisors, assembly and fabrication

This minor group comprises supervisors, assembly and fabrication, including supervisors, motor vehicle assembling; supervisors, electronics and electrical products manufacturing; supervisors, furniture and fixtures manufacturing; supervisors, other mechanical and metal products manufacturing; and supervisors, other products manufacturing and assembly. They are employed by plants that manufacture automobiles, vans and light trucks; electronics manufacturing plants; furniture and fixtures manufacturing establishments; companies that manufacture electrical products; and a wide variety of other manufacturing companies.

92020 Supervisors, motor vehicle assembling

Supervisors in motor vehicle assembling supervise and coordinate the activities of workers in motor vehicle production departments. They are employed in plants which manufacture automobiles, vans and light trucks.

Illustrative example(s)

- area coordinator - motor vehicle manufacturing
- assembly foreman/woman - motor vehicle manufacturing
- assembly supervisor - motor vehicle manufacturing
- assembly zone supervisor - motor vehicle manufacturing
- foreman/woman - motor vehicle manufacturing
- general assembly supervisor - motor vehicle manufacturing

Exclusion(s)

- Engine assembly supervisor (except aircraft) (See 92023-Supervisors, other mechanical and metal products manufacturing)
- Motor vehicle assemblers, inspectors and testers (94200)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers in motor vehicle manufacturing production departments such as body shop, chassis, paint, trim and hardware and final assembly
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Requisition materials and supplies

- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in engineering, sciences, business or other related discipline is usually required.
- Several years of experience as a production worker in motor vehicle manufacturing are required.

Additional information

- Progression to managerial positions is possible with experience.

92021 Supervisors, electronics and electrical products manufacturing

Supervisors in electronics manufacturing supervise and coordinate the activities of workers who assemble, fabricate, test, repair and inspect electronic parts, components and systems. They are employed in electronics manufacturing plants. Supervisors in electrical products manufacturing supervise and coordinate the activities of workers who assemble, fabricate and inspect electrical components, appliances, motors and industrial equipment. They are employed by companies that manufacture electrical products.

Illustrative example(s)

- assembly and testing supervisor - electronic equipment manufacturing
- communications equipment assembly supervisor - electronic equipment manufacturing
- electrical appliance assembly foreman/woman
- electrical appliance assembly supervisor
- electrical equipment manufacturing supervisor
- electrical motor assembly foreman/woman
- electrical transformer assembly foreman/woman
- electronic assembly foreman/woman
- final assembly and testing foreman/woman - electronic equipment manufacturing
- printed circuit board (PCB) fabrication foreman/woman - electronic equipment manufacturing
- production supervisor - electronics manufacturing
- switchgear assembly foreman/woman
- systems test foreman/woman - electronic equipment manufacturing

Exclusion(s)

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (94202)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (94203)
- Contractors and supervisors, electrical trades and telecommunications occupations (72011)
- Electrical and electronics engineering technologists and technicians (22310)
- Electronic service technicians (household and business equipment) (22311)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who assemble, fabricate, inspect and test electronic and electromechanical assemblies, subassemblies, parts and components or activities of workers who assemble, fabricate and inspect various types of electrical apparatus and equipment such as electrical appliances, batteries, electric motors, transformers and generators and electrical switchgear and control equipment
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies and recommend personnel actions such as hirings and promotions
- Ensure safety rules and regulations are followed
- Prepare production and other reports
- May set up machines and equipment
- Supervise, coordinate and schedule the activities of related helpers and labourers.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education in electronics, electrical or manufacturing technology or a related discipline is usually required for some positions in this group.
- Several years of experience as an electronics or electric assembler, fabricator, inspector, tester or lead hand are usually required for some positions in this group.

92022 Supervisors, furniture and fixtures manufacturing

Supervisors in furniture and fixtures manufacturing supervise and coordinate the activities of workers who manufacture furniture and fixtures made of wood or other materials. They are employed in furniture and fixtures manufacturing establishments.

Illustrative example(s)

- desk assembly foreman/woman
- furniture and fixtures manufacturing supervisor
- furniture assembly foreman/woman
- furniture finishers supervisor
- laminating foreman/woman
- woodworking machine operator foreman/woman - furniture and fixtures manufacturing
- woodworking machine operators supervisor - furniture and fixtures manufacturing

Exclusion(s)

- Cabinetmakers (72311)
- Contractors and supervisors, carpentry trades (72013)
- Furniture and fixture assemblers, finishers, refinishers and inspectors (94210)

- Millwork assembly foreman/woman - wood products manufacturing (See 92024-Supervisors, other products manufacturing and assembly)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule the activities of workers who assemble furniture and fixtures of any materials, operate woodworking machines and finish furniture to specified colour or finish
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a furniture and fixture assembler, woodworking machine operator, cabinetmaker or furniture finisher, is usually required.

92023 Supervisors, other mechanical and metal products manufacturing

Supervisors in other mechanical and metal products manufacturing supervise and coordinate the activities of workers who fabricate, assemble and inspect mechanical and metal products, such as aircraft and aircraft parts, heavy trucks, buses, trailers, motor vehicle engines, transmissions, heating equipment, commercial refrigeration and similar metal products. They are employed by a wide variety of manufacturing companies.

Illustrative example(s)

- aircraft assembly foreman/woman
- engine assembly foreman/woman (except aircraft)
- helicopter assembly foreman/woman
- metalworking machine operators foreman/woman
- mobile home assembly foreman/woman
- shipyard painter foreman/woman
- snowmobile assembly supervisor
- truck trailer assembly foreman/woman

Exclusion(s)

- Aircraft engine assembly foreman/woman (See 72020-Contractors and supervisors, mechanic trades)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (72010)
- Machine fitters supervisor (See 72020-Contractors and supervisors, mechanic trades)
- Supervisors, electronics and electrical products manufacturing (92021)
- Supervisors, motor vehicle assembling (92020)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule activities of workers who assemble and inspect products such as aircraft, buses, heavy trucks, transmissions, automobile engines and refrigeration and heating equipment
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school is usually required.
- Post-secondary education may be required for some occupations in this group.
- Several years of experience as an assembler or inspector in the same company are usually required.

92024 Supervisors, other products manufacturing and assembly

Supervisors in other products manufacturing and assembly supervise and coordinate the activities of workers who assemble, fabricate and inspect a variety of products, such as jewellery, clocks and watches, millwork, sporting goods, toys and other miscellaneous products. They are employed in a wide variety of manufacturing companies.

Illustrative example(s)

- bicycle assembly foreman/woman
- clock and watch assembly foreman/woman
- jewellery manufacturing foreman/woman
- millwork assembly foreman/woman
- millwork assembly supervisor
- silverware manufacturing supervisor
- sports equipment assembly supervisor
- toy manufacturing supervisor

Exclusion(s)

- Other labourers in processing, manufacturing and utilities (95109)
- Other products assemblers, finishers and inspectors (94219)

Main duties

This group performs some or all of the following duties:

- Supervise, coordinate and schedule activities of workers who assemble, fabricate and inspect products, such as jewellery, clocks, watches, bicycles, millwork, sporting goods and toys
- Establish methods to meet work schedules and coordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies

- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

Employment requirements

- Completion of secondary school may be required.
- Several years of experience as an assembler or inspector in the same company are usually required.

Additional information

- There is little mobility between different types of supervisors in this unit group.

921 Utilities equipment operators and controllers

This sub-major group comprises utilities equipment operators and controllers, including power engineers and power systems operators, and water and waste treatment plant operators.

9210 Utilities equipment operators and controllers

This minor group comprises utilities equipment operators and controllers, including power engineers and power systems operators, and water and waste treatment plant operators. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments; and municipal governments, industrial facilities, composting plants and other waste management facilities.

92100 Power engineers and power systems operators

Power engineers operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, institutional and industrial buildings and other work sites. Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments. Apprentices are also included in this unit group.

Illustrative example(s)

- apprentice power dispatcher
- auxiliary plant operator
- building systems technician
- control room operator - electrical power systems
- distribution control operator - electrical power systems
- electrical power systems operator
- energy from waste plant operator
- nuclear generating station field operator
- nuclear reactor operator
- power dispatcher - generating station
- power engineer
- power plant operator

- power plant stationary engineer
- stationary engineer

Exclusion(s)

- Civil and mechanical engineers (2130)
- Electrical, electronics and computer engineers (2131)
- Manufacturing and processing engineers (2132)
- Nuclear power station equipment mechanic (See 72400-Construction millwrights and industrial mechanics)
- Other engineers (2139)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)

Main duties

This group performs some or all of the following duties:

Power engineers

- Operate automated or computerized control systems, stationary engines and auxiliary equipment such as reactors, boilers, turbines, generators, pumps, compressors, pollution control devices and other equipment to generate electrical power and to provide light, heat, ventilation and refrigeration for buildings, industrial plants and other work sites
- Start up and shut down power plant equipment, control switching operations, regulate water levels and communicate with systems operators to regulate and coordinate transmission loads, frequency and line voltages
- Monitor and inspect plant equipment, computer terminals, switches, valves, gauges, alarms, meters and other instruments to measure temperature, pressure and fuel flow to detect leaks or other equipment malfunctions and to ensure plant equipment is operating at maximum efficiency
- Analyze and record instrument readings and equipment malfunctions
- Troubleshoot and perform corrective action and minor repairs to prevent equipment or system failure
- Respond to emergency situations if required
- Clean and lubricate generators, turbines, pumps and compressors and perform other routine equipment maintenance duties using appropriate lubricants and hand, power and precision tools
- Maintain a daily log of operation, maintenance and safety activities, and write reports on plant operation and non-compliance
- May assist in the development of operation, maintenance and safety procedures.

Power systems operators

- Operate and monitor computerized switchboards and auxiliary equipment in electrical control centres to control the distribution and to regulate the flow of electrical power in the transmission network
- Coordinate, schedule and direct generating station and substation power loads and line voltages to meet distribution demands during daily operations, system outages, repairs and importing or exporting of power
- Monitor and visually inspect station instruments, meters and alarms to ensure transmission voltages and line loadings are within prescribed limits and to detect equipment failure, line disturbances and outages
- Issue work and test permits to electrical and mechanical maintenance personnel, assist maintenance and technical personnel to locate and isolate system problems, and assist during routine system testing
- Complete and maintain station records, logs and reports.

Employment requirements

- Completion of secondary school is usually required.
- Power engineers require a college training program in power engineering and several years of work experience. An exam is mandatory to move from one class to the other.
- Power engineers require a provincial or territorial power engineering certificate according to class. There are five classes in Manitoba, Saskatchewan, Alberta and British Columbia while there are four classes in Newfoundland/Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Yukon, Northwest Territories and Nunavut territories.
- Power systems operators require completion of a three- to five-year power system operator apprenticeship program or over three years of work experience in the trade and some college or industry courses in electrical and electronic technology.
- Trade certification is available, but voluntary for power systems operators in Newfoundland and Labrador.
- Trade certification is available, but voluntary for power engineers in Nova Scotia.
- Control room operators at nuclear power plants require licensing from the Canadian Nuclear Safety Commission.

Additional information

- There is little mobility between nuclear power generation station operators and other classic or alternative power generation station operators.
- Progression from lower to higher classes for power or stationary engineers is dependent on further training and experience.
- Progression to supervisory positions is possible with experience.

92101 Water and waste treatment plant operators

Water treatment plant operators monitor and operate computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water. Liquid waste plant operators monitor and operate computerized control systems and related equipment in wastewater, sewage treatment and liquid waste plants to regulate the treatment and disposal of sewage and wastes. They are employed by municipal governments and industrial facilities. This unit group also includes waste treatment plant operators in composting plants and other waste management facilities.

Illustrative example(s)

- environmental systems operator - water treatment
- liquid waste process operator
- sewage plant operator
- waste treatment plant operator
- wastewater treatment plant operator
- water filtration plant operator
- water purification plant operator
- water treatment plant operator

Exclusion(s)

- Chemical engineers (21320)
- Chemical technologists and technicians (22100)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)

- Utility Maintenance Workers (74204)
- Waterworks labourer (See 95102-Labourers in chemical products processing and utilities)

Main duties

This group performs some or all of the following duties:

Water treatment plant operators

- Operate and monitor computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water
- Monitor and inspect plant equipment and systems to detect equipment malfunctions and to ensure plant systems are operating normally
- Read flow meters, gauges and other recording instruments to measure water output and consumption levels, bacterial content, chlorine and fluoride levels
- Collect and test water samples for chemical and bacterial content, analyze test results and instrument readings and make adjustments to plant equipment and systems to ensure quality control
- Provide verbal or written instructions for process control changes to waterworks system to ensure water produced meets standardized quality requirements
- Perform security checks in plant and on grounds
- Respond to public enquiries regarding water quality issues and emergencies
- Complete and maintain plant logs, reports and statistics
- May perform minor maintenance or assist skilled tradespersons with installation and repair of plant machinery
- May measure, mix and transport chemicals to maintain feed stocks.

Liquid waste plant operators

- Operate and monitor computerized control systems and related equipment in wastewater treatment, sewage treatment and liquid waste plants to regulate the flow of sewage through settling, aeration and digestion tanks, and to treat and dispose of sewage and wastes
- Patrol plant to check pumps, motors, filters, chlorinators and other plant equipment; monitor and read gauges, meters and other recording instruments to detect equipment malfunctions and ensure plant systems and equipment are operating within prescribed limits
- Test and adjust chemical feed rates to ensure that disinfection processes meet quality standards
- Collect waste and sewage samples, test and analyze results and make adjustments to plant equipment and systems as required
- Perform security checks in plant and on grounds
- Complete and maintain plant logs and reports
- Perform preventive maintenance on plant equipment to ensure that the facility operates in accordance with required standards
- May assist skilled tradespersons with installation and repair of plant machinery.

Employment requirements

- Completion of secondary school is required.
- College or industry training courses in chemistry, pollution control or related subjects are usually required.
- Certification in water treatment and distribution (level according to the classification of the plant) is required for water treatment plant operators.
- Drinking water certification is required in Quebec and Ontario for operators whose work involves water treatment and distribution.

- Certification in wastewater collection and wastewater treatment (level according to the classification of the plant) is required for wastewater treatment plant operators.
- Solid waste, landfill or compost facility operator certification may be required for operators in waste treatment plants.
- Certification in workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), and courses in safety practices may be required.
- On-the-job training is provided.
- Previous experience as a worker in the water treatment or wastewater field may be required.

Additional information

- There is limited mobility between water treatment plant and waste plant operators.
- Progression to supervisory positions is possible with experience.

93 Central control and process operators and aircraft assembly assemblers and inspectors

This major group comprises central control and process operators and aircraft assembly assemblers and inspectors. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 3. Occupations classified in TEER 3, as those included in this group with a 3 as the second digit of their code, typically require completion of a post-secondary education program of less than two years at community college, institute of technology or CÉGEP; or completion of an apprenticeship training program of less than two years; or more than six months of on-the-job training, training courses or specific work experience with some secondary school education; or the accumulation of several years of experience in a related occupation found in TEER 4, when applicable (TEER 4 includes occupations with a 4 as a second digit in their code).

931 Central control and process operators in processing and manufacturing

This sub-major group comprises central control and process operators in processing and manufacturing, including central control and process operators, mineral and metal processing; central control and process operators, petroleum, gas and chemical processing; and pulping, papermaking and coating control operators.

9310 Central control and process operators in processing and manufacturing

This minor group comprises central control and process operators in processing and manufacturing, including central control and process operators, mineral and metal processing; central control and process operators, petroleum, gas and chemical processing; and pulping, papermaking and coating control operators. They are employed by mineral ore and metal processing plants; petroleum and natural gas processing, pipeline and petrochemical companies; industrial, agricultural and specialty chemical and pharmaceutical companies; and pulp and paper companies.

93100 Central control and process operators, mineral and metal processing

Central control and process operators, mineral and metal processing, operate and monitor multi-function process control machinery and equipment to control the processing of mineral ores, metals or cement. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants.

Illustrative example(s)

- blast furnace operator
- central control caster
- central control room operator - primary metal processing
- chief flotation operator

- console operator - cement manufacturing
- pelletizing control operator
- roaster operator - primary metal processing
- rolling mill control operator

Exclusion(s)

- Casting machine operator - foundry (See 94101-Foundry workers)
- Foundry furnace operator (See 94101-Foundry workers)
- Machine operators, mineral and metal processing (94100)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

- Coordinate and monitor the operation of a particular aspect of mineral ore, metal and cement processing production through control panels, computer terminals or other control systems, usually from a central control room
- Operate multi-function central process control machinery to grind, separate, filter, melt, roast, treat, refine or otherwise process mineral ores
- Observe computer printouts, video monitors and gauges to verify specified processing conditions and to make necessary adjustments
- Coordinate and supervise production crew such as machine and process operators, tenders, assistants and helpers
- Start up and shut down the production system in cases of emergency or as required by schedule
- Provide or organize training for members of production crew
- Maintain shift log of production and other data and prepare production and other reports.

Employment requirements

- Completion of secondary school is required.
- A college diploma may be required for some positions in this group.
- On-the-job training is provided.
- Several years of experience as a machine or process operator, usually in the same company or production department, are required.

Additional information

- There is little mobility among the various types of central control and process operators within the mineral and metal processing industry.
- With experience, central control and process operators may progress to supervisory positions in mineral and metal processing.

93101 Central control and process operators, petroleum, gas and chemical processing

Central control and process operators in petroleum, gas and chemical processing monitor and operate petroleum, petrochemical and chemical plants and monitor, adjust and maintain processing units and equipment in these plants. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies and industrial, agricultural and specialty chemical and pharmaceutical companies.

Illustrative example(s)

- acid plant operator
- chemical process operator
- chemical processing chief technician
- chlor-alkali plant cell room operator
- gas field production operator
- gas plant operator
- gas recovery operator
- master operator - chemical processing
- oil refinery process operator
- panel operator - chemical processing
- petroleum process operator
- pharmaceutical processing operator
- pipeline compressor station operator
- process technician - chemical processing
- refinery process technician

Exclusion(s)

- Chemical plant machine operators (94110)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)

Main duties

This group performs some or all of the following duties:

- Operate electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units
- Control process start-up, shut-down and troubleshooting
- Monitor outside process equipment
- Adjust equipment, valves, pumps and controls and process equipment
- Authorize or cosign maintenance work orders
- Shut down, isolate and prepare process units or production equipment for maintenance
- Sample products, perform tests, record data, carry out statistical process control on process operations, and write production logs
- Develop operating procedures for normal operation, start-up or shut-down of unit
- Participate in safety audits and programs and provide emergency response when required
- Ensure adherence to safety and environmental regulations
- May rotate between different processing units during shift cycles
- May work in a team with shared supervisory responsibilities and participate in training other workers
- May be cross-trained in a skilled trade and work in the trade during shift cycles.

Employment requirements

- Completion of secondary school is required. Mathematics, chemistry and physics subjects are often specified.

- A college diploma in process operation, sciences or a related subject may be required for some positions.
- Petroleum and chemical process operators and process technicians require completion of several years of formal company training.
- Experience as a petroleum or chemical process operator in all the operating units controlled by the central control room is required for chief operators.
- Company certification as a petroleum process operator or technician may be required.
- A provincial power engineer licence, compressor operator or refrigeration certificate may be required when certain kinds of equipment are included in the process.
- Certification in the transportation of dangerous goods (TDG), first aid, firefighting, or workplace hazardous materials information system (WHMIS) may be required.

Additional information

- There is considerable mobility among jobs within a company, often as part of a formal development or training program.
- Mobility to other petroleum or chemical processing plants is possible, but may be limited by the usual practice of training and promoting workers from within the establishment.
- Progression to supervisory or managerial positions is possible with experience.
- Personal protective equipment may be required for occupations in this unit group that may involve exposure to hazards of toxic, flammable or explosive chemicals.

93102 Pulping, papermaking and coating control operators

Pulping, papermaking and coating control operators operate and monitor multi-function process control machinery and equipment to control the processing of wood, scrap pulp, recyclable paper, cellulose materials, paper pulp and paperboard. They are employed by pulp and paper companies.

Illustrative example(s)

- bleach plant operator - pulp and paper
- panelboard operator - pulp and paper
- paper machine control operator
- pulping control operator
- pulping group operator - pulp and paper
- pulping technician

Exclusion(s)

- Pulp mill, papermaking and finishing machine operators (94121)
- Supervisors, forest products processing (92014)

Main duties

This group performs some or all of the following duties:

- Operate, coordinate and monitor pulping, papermaking and papercoating process equipment from central control room or machine consoles and control panels in equipment cabins to control process operations and machinery in the production of pulp and paper
- Control the processing of wood, scrap pulp, recyclable paper, cellulose materials, pulp paper and paperboard and monitor the chemical and physical process operations using a distributed control system and process computers

- Observe panel indicators, gauges, video monitors and other instruments to detect equipment malfunctions and ensure pulping, papermaking and coating processes are operating according to process specifications
- Analyze instrument readings and production test samples and make adjustments or direct other pulp mill, papermaking and finishing machine operators to make adjustments to pulp production, papermaking and coating process and equipment as required
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is required.
- A college or other program in forest products processing or a related subject may be required for pulping control operators.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Several years of experience as a pulp mill, papermaking or finishing machine operator within the same company is usually required.
- A certificate in industrial first aid may be required.
- A competency certificate in natural gas may be required.

Additional information

- There is limited mobility among jobs within this unit group.
- Progression to supervisory positions is possible with experience.

932 Aircraft assemblers and aircraft assembly inspectors

This sub-major group comprises aircraft assemblers and aircraft assembly inspectors.

9320 Aircraft assemblers and aircraft assembly inspectors

This minor group comprises aircraft assemblers and aircraft assembly inspectors. They are employed by aircraft and aircraft subassembly manufacturers.

93200 Aircraft assemblers and aircraft assembly inspectors

Aircraft assemblers assemble, fit and install prefabricated parts to manufacture fixed wing or rotary wing aircraft or aircraft subassemblies. Aircraft assembly inspectors inspect aircraft assemblies for adherence to engineering specifications. They are employed by aircraft and aircraft subassembly manufacturers.

Illustrative example(s)

- aircraft assembler
- aircraft assembly inspector
- airframe assembler
- bench and structural assembler
- bench fitter mechanic - aircraft assembly
- rigger - aircraft assembly
- wing tank mechanic - aircraft assembly

Exclusion(s)

- Aircraft assembly supervisor (See 92023-Supervisors, other mechanical and metal products manufacturing)
- Aircraft electronic equipment installer (See 22313-Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Aircraft engine assembly fitter (See 72405-Machine fitters)
- Aircraft mechanics and aircraft inspectors (72404)
- Aircraft painter (See 94213-Industrial painters, coaters and metal finishing process operators)
- Avionics systems installer (See 22313-Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)

Main duties

This group performs some or all of the following duties:

Aircraft assemblers

- Read and interpret aircraft assembly diagrams
- Assemble and fit pre-fabricated parts to form subassemblies, working at benches or directly on an aircraft structure
- Assemble, fit and install pre-fabricated parts and subassemblies such as aircraft skins, flight controls, rigging, hydraulics and other mechanical systems.

Aircraft assembly inspectors

- Inspect aircraft assemblies, using measuring and testing equipment, for adherence to engineering specifications
- Inspect assemblies for alignment, symmetry, dimensions, fit and quality of workmanship
- Complete detailed inspection documentation.

Employment requirements

- Completion of secondary school is required.
- Completion of a college or other program in aviation or aeronautical technology, with emphasis in aircraft manufacturing, may be required.
- Aircraft assemblers receive several months of on-the-job and classroom training.
- Aircraft assembly inspectors require experience as an aircraft assembler.

Additional information

- Aircraft assemblers and assembly inspectors may progress to supervisory positions with experience.

94 Machine operators, assemblers and inspectors in processing, manufacturing and printing

This major group comprises machine operators, assemblers and inspectors in processing, manufacturing and printing. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 4. Occupations classified in TEER 4, as those included in this group with a 4 as the second digit of their code, typically require completion of secondary school; or several weeks of on-the-job training with some secondary school education; or experience in a related occupation from TEER 5, when applicable (TEER 5 includes occupations with a 5 as a second digit in their code).

941 Processing and manufacturing machine operators and related production workers

This sub-major group comprises processing and manufacturing machine operators and related production workers, including machine operators and related workers in mineral and metal products processing and manufacturing; machine operators and related workers in chemical, plastic and rubber processing; machine operators and related workers in pulp and paper production and wood processing and manufacturing; machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing; machine operators and related workers in food, beverage and associated products processing; and printing equipment operators and related occupations.

9410 Machine operators and related workers in mineral and metal products processing and manufacturing

This minor group comprises machine operators and related workers in mineral and metal products processing and manufacturing, including machine operators, mineral and metal processing; foundry workers; glass forming and finishing machine operators and glass cutters; concrete, clay and stone forming operators; inspectors and testers, mineral and metal processing; metalworking and forging machine operators; machining tool operators; and machine operators of other metal products. They are employed by mineral ore and metal processing plants and cement processing plants; metal foundries and foundry departments of metal products manufacturing companies; glass and glass products manufacturing companies; concrete, clay and stone products manufacturing companies; sheet metal products manufacturing companies, sheet metal shops and other light metal products manufacturing establishments; structural steel fabrication, boiler and platework manufacturing companies and heavy machinery manufacturing companies; metal products and other manufacturing companies and machine shops; and in the shipbuilding, fabricated metal products, machinery and transportation equipment manufacturing industries.

94100 Machine operators, mineral and metal processing

Machine operators in mineral and metal processing operate machinery to process mineral ore and metal. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants.

Illustrative example(s)

- aluminum classifier
- asbestos dryer
- billet heater
- brick and tile crusher operator
- cement miller
- extrusion press operator
- foil-winding machine operator
- ladle pourer
- lead refiner
- lime kiln operator
- mica sheet laminator
- quenching car operator
- scrap metal shredder
- sintering machine operator
- slurry equipment operator
- steel roller
- uranium classifier operator
- zinc cell operator

Exclusion(s)

- Central control and process operators, mineral and metal processing (93100)
- Concrete, clay and stone forming operators (94103)
- Foundry workers (94101)
- Glass forming and finishing machine operators and glass cutters (94102)
- Inspectors and testers, mineral and metal processing (94104)
- Labourers in mineral and metal processing (95100)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

- Set up, prepare and adjust mineral ore, metal and cement processing machinery to carry out one step in the overall mineral ore or metal processing operation
- Operate single-function machinery to grind, separate, filter, mix, treat, cast, roll, refine or otherwise process mineral ores
- Observe gauges, meters, computer printouts, video monitors and products to ensure correct operation of machinery and verify processing conditions
- Make adjustments to machinery as required
- Record production information and complete reports
- May assist with machinery maintenance or repair.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Experience as a labourer in mineral and metal processing is usually required for machine operators.

Additional information

- There is little mobility among the various types of machine operators within the mineral and metal processing industry.
- With experience, machine operators may progress to central control and process operators in mineral and metal processing.

94101 Foundry workers

Foundry workers make foundry moulds and cores by hand or machine, cast molten metal, and operate furnaces in the foundry industry. They are employed by metal foundries and foundry departments of metal products manufacturing companies.

Illustrative example(s)

- bench moulder - foundry
- casting machine operator - foundry
- ceramic mouldmaker - foundry
- die-casting machine operator
- foundry worker
- furnace operator - foundry

- manual moulder
- melter - foundry
- pit moulder
- sand coremaker
- sand moulder

Exclusion(s)

- Continuous casting operator - primary metal processing (See 93100-Central control and process operators, mineral and metal processing)
- Foundry labourer (See 95100-Labourers in mineral and metal processing)
- Foundry supervisor (See 92010-Supervisors, mineral and metal processing)
- Furnace operator - primary metal and mineral products processing (See 93100-Central control and process operators, mineral and metal processing)

Main duties

This group performs some or all of the following duties:

Mouldmakers and coremakers

- Make and repair sand moulds using patterns, moulding boxes, sand and hand tools following bench, floor or pit moulding methods
- Operate ovens to dry moulds
- Make cores for use inside moulds to form holes or void spaces in castings using core boxes, sand, hammer and wire or other reinforcing material
- Coat cores with protective materials and bake cores in oven
- Set up, adjust and operate various mouldmaking and coremaking machines to make sand and ceramics moulds and cores
- May pour molten metal into moulds to produce metal castings.

Metal casters

- Set up and operate various casting machines to cast ferrous and non-ferrous metal products; hand ladle and pour molten metal into moulds to produce castings.

Foundry furnace operators

- Operate furnaces used to melt metals for moulding and casting.

Employment requirements

- Completion of secondary school is required.
- Several weeks of on-the-job training are required.

Additional information

- There is some mobility between workers in this unit group.
- Progression to supervisory positions is possible with experience.

94102 Glass forming and finishing machine operators and glass cutters

Glass forming and finishing machine operators operate multi-function process control machinery or single-function machines to melt, form, cut or finish flat glass, glassware, bottles, and other glass products. Glass cutters cut flat glass of various thicknesses to specified sizes and shapes by hand. They are employed by glass and glass products manufacturing companies.

Illustrative example(s)

- bottle machine operator - glass products manufacturing
- float operator - glass forming
- glass beveller
- glass edger
- glass moulder
- glass-blowing machine operator
- glass-finishing machine operator
- glass-pressing machine operator
- hand glass cutter
- mirror maker

Exclusion(s)

- Glass blower (See 53124-Artisans and craftspersons)
- Glass inspector (See 94104-Inspectors and testers, mineral and metal processing)
- Glass-forming machine operator helper (See 95100-Labourers in mineral and metal processing)
- Glaziers (73111)
- Neon sign maker (See 94202-Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

Glass process control operators

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to mix and melt raw materials; heat, anneal, temper or form float glass or glass products; and coat glass with silver or other metals and materials
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments as necessary
- Maintain shift log of production and other data
- May operate process control machinery to cut glass or assemble glass window units
- May clean and maintain process machinery
- May ensure adequate levels of oil, soap, talc or other materials used in machine production of glass.

Glass forming machine operators

- Set up and adjust automatic glass feeding, flowing and forming machines

- Operate and maintain machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses
- Operate electric kilns that heat glass sheets and mould to the shape and curve of metal jigs
- Spray or swab moulds with oil solutions to prevent adhesion of glass
- Weigh, measure and check production samples to assess conformance to specifications using scales and gauges and by visual verification.

Glass finishing machine operators

- Set up and adjust glass and glass-product finishing machines
- Operate and maintain finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products
- Visually inspect products for quality
- Record manufacturing information such as quantity, size and type of goods produced.

Glass cutters

- Jig, measure and mark glass or place pattern on or under glass for cutting
- Examine and mark defective glass to obtain best cut
- Cut glass along marked outlines or around pattern using hand tools
- Smooth rough edges using belt sander or smoothing wheels
- Set up, operate and adjust computerized or robotic glass cutting equipment
- Monitor process for product quality.

Employment requirements

- Completion of secondary school may be required.
- Experience as a machine operator helper in glass manufacturing is usually required for machine operators in this unit group.
- Experience as a glass cutter helper is usually required for manual glass cutters.

Additional information

- Mobility is possible among the various types of machine operators in this unit group.
- Progression to supervisory positions is possible with experience.

94103 Concrete, clay and stone forming operators

Concrete, clay and stone forming operators cast and finish concrete products, operate machines to extrude, mould, press and bake clay products, and operate machines to form, cut and finish stone products. They are employed by concrete, clay and stone products manufacturing companies.

Illustrative example(s)

- asbestos shingle presser
- brick presser operator
- clay press operator
- clay products moulder
- concrete block maker
- finisher - concrete, clay and stone products

- granite cutter
- marble cutter
- precast concrete moulder
- precast concrete slab maker
- stone driller
- stone planer
- stonework moulder

Exclusion(s)

- Carver (See 53124-Artisans and craftspersons)
- Concrete finishers (73100)
- Concrete products inspector (See 94104-Inspectors and testers, mineral and metal processing)
- Labourers in mineral and metal processing (95100)
- Potter (See 53124-Artisans and craftspersons)
- Sculptor (See 53122-Painters, sculptors and other visual artists)
- Stone inspector - mineral products processing (See 94104-Inspectors and testers, mineral and metal processing)
- Stonemason (See 72320-Bricklayers)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

Concrete products forming and finishing machine operators and workers

- Set up, adjust and operate single-function machines to mix, drill, grind and cut concrete to specifications in the manufacture of concrete products
- Check products for quality control, repair flaws and perform ongoing machine adjustments and minor maintenance as necessary
- Move products using forklift, crane or hydraulic hoist
- Record manufacturing information such as quantity, size and type of goods produced
- Construct clay models and moulds by hand and with hand tools for use in casting concrete products
- Build and repair wooden forms used to mould concrete products
- Position reinforcing rods or wire mesh in moulds and fill moulds with concrete from suspended pouring buckets
- Start vibrating tables to settle concrete, or tamp concrete using electric vibrator
- Remove castings from mould with crane or forklift, and finish surfaces of castings using screed or trowel
- Cut cured concrete pipe sections with saw or chisel, and cement sections together to form odd shaped fittings.

Clay products forming and finishing machine operators

- Set up and operate automatic machines that mix ingredients, extrude tempered clay mixture and cut extruded clay into sections to make products such as bricks, drain tiles and porcelain insulators
- Operate mechanical or hydraulic ram and hot-presses to form pottery and porcelain ware

- Prepare and mix slip and fill moulds with slip to form pottery and porcelain ware such as jugs, cups, sinks and toilet bowls
- Operate kiln to bake clay products to specified hardness.

Stone forming and finishing workers

- Operate blade or wire saws to cut blocks of stone to specified dimensions
- Operate machines to grind and polish surfaces of stone blocks, slabs or other stone products to specific shape or design and to produce smooth finish
- Operate sandblasting equipment to cut inscriptions or decorative designs in stone monuments
- Finish stone products with spray paint and by mounting plaques or installing concrete bases
- Operate stone-dressing lathe to sharpen and dress grindstones that grind logs into pulp
- Operate machine to drill holes in blocks or slabs of stone according to specifications.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is provided.
- Experience as a helper or labourer in concrete, clay or stone products manufacturing may be required.
- Mould makers in this unit group who construct and repair wooden forms may require some carpentry or woodworking experience.

Additional information

- Mobility is possible between workers within each of the concrete, clay and stone manufacturing sectors, but there is little or no mobility between these manufacturing sectors.
- Progression to supervisory positions is possible with experience.

94104 Inspectors and testers, mineral and metal processing

Inspectors and testers in mineral and metal processing inspect, grade, sample or test raw materials and products from mineral ore and metal processing operations. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Illustrative example(s)

- asbestos grader
- brick and tile inspector
- castings tester - primary metal and mineral products processing
- clay products grader
- core tester - foundry
- fibreglass tester
- glass quality control inspector
- heat treating inspector - metal processing
- metal processing inspector
- mineral sampler - mineral products processing
- molten metal sampler - primary metal processing
- salvage glass inspector

- sheet steel inspector - primary metal processing
- steel tester - primary metal processing

Exclusion(s)

- Assayer - mineralogy (See 22101-Geological and mineral technologists and technicians)
- Central control and process operators, mineral and metal processing (93100)
- Chemical technologists and technicians (22100)
- Machine operators, mineral and metal processing (94100)
- Metallurgical control analyst (See 22101-Geological and mineral technologists and technicians)
- Non-destructive testers and inspectors (22230)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

- Inspect mineral ore, metal, cement, glass, clay or concrete products at various stages of processing to ensure adherence to specifications
- Grade and label raw materials or finished products according to size, thickness, composition or other classification standards
- Take samples of products during or after processing operation for routine analysis or for subsequent laboratory analysis
- Test product for strength, density, durability and conformance to specifications
- Advise supervisor or central control operator and process machine operators of problems and product deficiencies
- Complete inspection and test reports.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a machine or process operator in mineral and metal processing is usually required.

94105 Metalworking and forging machine operators

Light metalworking machine operators operate metalworking machines which shape and form sheet or other light metal into parts or products. Heavy metalworking machine operators operate metalworking machines which shape and form steel or other heavy metal into parts or products. Forging machine operators operate forging machines to form and shape metal into various shapes and sizes and impart desired strength, hardness or other characteristics. Light metalworking machine operators are employed by sheet metal products manufacturing companies, sheet metal shops and other light metal products manufacturing establishments. Heavy metalworking machine operators are employed by structural steel fabrication, boiler and platework manufacturing companies, heavy machinery manufacturing companies and in the shipbuilding industry. Forging machine operators are employed primarily in the fabricated metal products, machinery and transportation equipment manufacturing industries.

Illustrative example(s)

- bending press operator - metal fabrication
- cold press operator - metal forging
- disk flange operator - metal fabrication

- drop hammer operator - metal forging
- electric arc cutter - metal products manufacturing
- forging press operator
- metal-forming machine set-up operator
- metalworking machine operator
- power brake operator - metal fabrication
- power press operator - metal fabrication
- punch press setter - metalworking
- roll operator - metal fabrication
- saw operator - metal fabrication
- shear setter - metal fabrication
- sheet metal roll operator - metal fabrication

Exclusion(s)

- Sheet metal workers (72102)
- Structural metal and platework fabricators and fitters (72104)
- Supervisors, other mechanical and metal products manufacturing (92023)

Main duties

This group performs some or all of the following duties:

Metalworking machine operators

- Read specifications or follow verbal instructions
- Lay out, set up and operate one or more light or heavy metalworking machines such as shears, power presses, saws, plate rolls, drills, brakes, slitters, punch presses, computer numerically controlled (CNC) equipment, and other hand tools to cut, bend, roll, ream, punch and drill, weld or otherwise shape and form metal stock into parts or products
- Operate machines or equipment which weld, solder, bolt, screw or rivet metal parts together
- Check products for correct shapes, dimensions and other specifications
- Troubleshoot and perform corrective action or minor repairs
- May select and transport material to work area manually or using crane or hoist
- May document work completed
- May build staging or erect scaffolding as required for heavy metalworking jobs
- May clean or lubricate equipment and replace parts as required.

Forging machine operators

- Operate gas or oil fired furnaces to heat metal to proper temperature prior to forging
- Place metal pieces in furnace using hand tongs or overhead cranes and remove from furnace when colour of metal indicates proper forging temperature, or load and unload furnace with automatic conveyor
- Position heated or cold metal pieces, on die of press or other forging machinery
- Operate presses or other forging machines to perform hot or cold forging by flattening, straightening, twisting, forming, drawing, upsetting, splitting, cutting, punching, piercing, bending, coining, or other operations to shape or form metal
- Position and adjust dies on anvil of forging machinery using overhead cranes or other hoisting devices and hand tools.

Employment requirements

- Completion of secondary school education may be required.
- Previous experience as a labourer or helper in the same company may be required.
- On-the-job training is usually provided.

Additional information

- There is little or no mobility between operators of light and heavy metalworking machines.
- Progression to structural metal fabricator or supervisory positions is possible with experience for metalworking machine operators.
- Progression to blacksmith, die setting, or supervisory positions is possible with experience for forging machine operators.

94106 Machining tool operators

Machining tool operators set up and operate or tend metal-cutting machines designed for repetitive machining work. They are employed by metal products and other manufacturing companies and in machine shops. This unit group also includes workers who etch or chemically mill metal pieces.

Illustrative example(s)

- aircraft parts etcher
- boring mill operator - metal machining
- computer numerical control (CNC) machining tool operator
- lathe machining operator
- machining tool operator
- milling machine set-up operator
- radial drill operator - metal machining

Exclusion(s)

- Computer numerical control (CNC) programmer (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (72010)
- Machinists and machining and tooling inspectors (72100)
- Tool and die makers (72101)

Main duties

This group performs some or all of the following duties:

- Study job orders and interpret blueprints to determine machining operations to be performed
- Set up and operate machine tools to perform repetitive machining operations, such as turning, milling, drilling, boring, planing, honing, broaching, grinding or other machining operations
- Verify dimensions of parts machined using micrometers, callipers and other precision measuring instruments

- Prepare etching solution and immerse metal parts or workpiece in etching solution to remove unwanted portions
- Perform routine maintenance on equipment and machinery
- May enter codes specifying speed, feed and cut of the toolpath for computer numerical controlled (CNC) machine tools.

Employment requirements

- Secondary school education is required.
- College or other courses in machining may be required.
- Several weeks of on-the-job training are provided.
- Senior positions in this unit group, such as set-up operator, require experience as a machine operator.

Additional information

- Experienced machining tool operators may become machinists or tool and die makers through apprenticeship training.

94107 Machine operators of other metal products

Other metal products machine operators operate one or more automatic or multi-purpose machines to produce a variety of metal parts and products, such as wire mesh, nails, bolts and chains. They are employed by a wide variety of metal products manufacturing companies.

Illustrative example(s)

- bolt machine operator
- bullet maker
- can-forming machine operator
- chain-making machine operator
- metal cable maker operator
- nail making machine tender
- spring machine operator
- wire screen maker
- wire weaver

Exclusion(s)

- Machining tool operators (94106)
- Metalworking and forging machine operators (94105)
- Supervisors, other mechanical and metal products manufacturing (92023)

Main duties

This group performs some or all of the following duties:

- Operate or tend automatic or multi-purpose machines including wire looms to produce metal parts and metal products such as wire screening, fencing, tinware, metal baskets, racks, hooks, metal tubing and similar articles
- Fit and assemble components using hand and power tools
- Clean, polish, file or otherwise finish products

- Check products for quality and other specifications
- May clean and lubricate machinery.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Experience as a labourer in the same company may be required.

Additional information

- There is some mobility among machine operators in this unit group.
- Progression to supervisory positions is possible with experience.

9411 Machine operators and related workers in chemical, plastic and rubber processing

This minor group comprises machine operators and related workers in chemical, plastic and rubber processing, including chemical plant machine operators; plastics processing machine operators; and rubber processing machine operators and related workers. They are employed in chemical, cleaning compound, ink and adhesive industries; by chemical processing departments in other industries; plastic products manufacturing companies; and tire manufacturers and other rubber products manufacturing companies.

94110 Chemical plant machine operators

Chemical plant machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of specialty chemicals, pharmaceuticals, cleaning and toiletry products. They are primarily employed in chemical, cleaning compound, ink and adhesive industries, but may also be employed by chemical processing departments in other industries.

Illustrative example(s)

- batch mixer - chemical processing
- blender operator - chemical processing
- capsule machine operator - chemical processing
- evaporator operator - chemical processing
- formulations blender operator - chemical processing
- glue blender - chemical processing
- granulator machine operator - chemical processing
- mixer - chemical processing
- screener - chemical processing
- soap maker

Exclusion(s)

- Central control and process operators, petroleum, gas and chemical processing (93101)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)

Main duties

This group performs some or all of the following duties:

- Monitor meters, gauges and electronic instrumentation on one or more chemical processing or formulation units, such as mixers, kettles, blenders, dryers, tableting, encapsulation, granulation and coating machines
- Measure, weigh and load chemical ingredients following formulation cards
- Start up, shut down, troubleshoot and clean equipment
- Adjust processing machines and equipment
- Monitor reaction processes and transfers of products in conformance with safety procedures
- Take samples and perform routine chemical and physical tests of products
- Record production data
- May operate equipment from a control room or from control consoles located near the production units.

Employment requirements

- Completion of secondary school is usually required.
- Completion of several weeks of on-the-job training or informal/formal company training is usually required.
- Completion of additional training may be required for some operators working in pharmaceutical, explosives and agricultural chemical or in specialty chemical plants.
- Previous experience in chemical products processing as an assistant, labourer or helper may be required for some occupations in this unit group.
- Certification in the transportation of dangerous goods (TDG), forklift operator certification, first aid, firefighting, workplace hazardous materials information system (WHMIS) and other health and safety training may be required for some occupations in this unit group.

Additional information

- Mobility between employers producing similar products is possible for some of the more skilled operators in this unit group.
- Progression to supervisory positions or to process control occupations is possible with experience.
- Personal protective equipment may be required when working with some types of chemicals or pharmaceuticals.

94111 Plastics processing machine operators

Plastics processing machine operators set up and operate plastic mixing, calendering, extruding and moulding processing machines used in the manufacture of plastic parts and plastic products. They are employed by plastic products manufacturing companies.

Illustrative example(s)

- bag machine operator
- banbury operator - plastic manufacturing
- blow moulding machine operator - plastic manufacturing
- calender operator - plastic manufacturing
- extruder operator - plastic manufacturing
- injection moulding operator - plastic manufacturing
- plastics press operator
- printing roller moulder - plastic manufacturing

- solution mixer operator - plastic manufacturing
- thermoforming operator

Exclusion(s)

- Labourers in rubber and plastic products manufacturing (95104)
- Plastic products assemblers, finishers and inspectors (94212)
- Rubber processing machine operators and related workers (94112)
- Supervisors, plastic and rubber products manufacturing (92013)

Main duties

This group performs some or all of the following duties:

Mixing machine operators

- Weigh resins, colourants and other chemicals according to formula
- Place weighed materials in mixing machine and operate machine to blend plastic and other chemicals to a specified consistency or viscosity
- Monitor operation, regulate material supply and add chemicals and colourants to mixture
- Operate controls to regulate temperature, speed and other processing conditions
- Unload mixture into container or conveyor for further processing
- Maintain and perform minor repairs on machinery as required
- Maintain inventory of material and clean working area.

Calendering process operators

- Set up and operate calendering machines which transform dough-consistent plastic mass into continuous sheets or films of specified thickness
- Troubleshoot, maintain and make minor repairs to equipment and adjust calender rollers for production line change
- Monitor quality of material produced
- Maintain inventory of material and clean working area.

Extruding process operators

- Set up and operate one or more extruding machines which extrude plastic composites products through a nozzle or die
- Change dies on extruding machines according to production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced
- Maintain inventory of material and clean working area.

Moulding process operators

- Set up and operate one or more moulding machines which mould plastic products according to specifications
- Change moulds and adjust equipment for production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced and adjust machine settings as required

- Follow formulation card to mix ingredient batches for injection moulding process
- Maintain inventory of material and clean working area.

Employment requirements

- For all operators in this unit group, completion of secondary school is usually required.
- Several years of experience as a helper, tender or packer in the same company may be required.
- Completion of a statistical process control (SPC) course may be required.
- Completion of courses in hydraulics, pneumatics and electronics systems may be required for moulding process operators.
- On-the-job training is provided.

Additional information

- Mobility among the various operators in this unit is possible.
- Progression to supervisory positions is possible with experience.

94112 Rubber processing machine operators and related workers

Rubber processing machine operators and related workers operate rubber processing machinery and assemble and inspect rubber products. They are employed by tire manufacturers and other rubber products manufacturing companies.

Illustrative example(s)

- banbury operator - rubber products manufacturing
- blow-out and test operator - rubber products
- calender machine operator - rubber products manufacturing
- cure operator - rubber products manufacturing
- extruder operator - rubber products manufacturing
- moulding press tender - rubber products manufacturing
- refiner mill tender - rubber products manufacturing
- rubber belt builder
- rubber hose builder
- rubber processing machine operator
- rubber products assembler
- rubber products manufacturing inspector
- scrap rubber grinder - recycling
- tire builder
- tire inspector

Exclusion(s)

- Labourers in rubber and plastic products manufacturing (95104)
- Plastic products assemblers, finishers and inspectors (94212)
- Plastics processing machine operators (94111)
- Supervisors, plastic and rubber products manufacturing (92013)

Main duties

This group performs some or all of the following duties:

Rubber processing machine operators

- Set up, operate and tend machinery used for mixing, calendaring, extruding, moulding and curing rubber materials or rubber products
- Load or feed rubber, pigments, filler, oil and chemicals into machines
- Check and monitor processing conditions and product quality
- Adjust machines to proper setting as required
- Train or assist in training new workers.

Rubber products assemblers

- Lay out and prepare rubber materials for assembly
- Operate machines or equipment or use hand tools to cut, shape, splice, fit and cement rubber materials to form rubber parts or finished rubber products
- Operate finishing machines or equipment to trim, grind, or buff rubber products into final form
- Train or assist in training new workers.

Rubber products inspectors

- Inspect finished rubber products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved products and mark and reroute defective products for repair or recycle
- Fill out product inspection report
- May make minor adjustments or repairs to products.

Employment requirements

- Completion of secondary school may be required.
- Experience as a labourer in the same company may be required.
- On-the-job training is provided.

Additional information

- Mobility among the various labourers in this unit group is possible.
- Progression to supervisory positions is possible with experience.

9412 Machine operators and related workers in pulp and paper production and wood processing and manufacturing

This minor group comprises machine operators and related workers in pulp and paper production and wood processing and manufacturing, including sawmill machine operators; pulp mill, papermaking and finishing machine operators; paper converting machine operators; lumber graders and other wood processing inspectors and graders; and woodworking machine operators. They are employed by sawmills and planing mills; pulp and paper companies; woodrooms of pulp mills, wood treatment plants, waferboard plants and other wood processing plants; paper products manufacturing companies; and furniture, fixture and other wood products manufacturing establishments.

94120 Sawmill machine operators

Sawmill machine operators operate, monitor and control automated lumbermill equipment to saw timber logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes. They are employed in sawmills and planing mills.

Illustrative example(s)

- circular saw operator
- edgerman/woman
- head sawyer
- log cut-off operator
- planer operator
- resaw operator
- shake splitter
- trimmerman/woman

Exclusion(s)

- Labourers in wood, pulp and paper processing (95103)
- Lumber graders and other wood processing inspectors and graders (94123)
- Other wood processing machine operators (94129)
- Supervisors, forest products processing (92014)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

- Operate front-end loaders and stationary deck cranes to feed logs into the sawmill
- Examine logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or use automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns
- Operate automated lumbermill from control rooms or consoles to saw logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes
- Start conveyor system to move logs and lumber to and from saws
- Set up and adjust saw equipment and replace blades or bands using wrenches, gauges and other hand tools
- Operate equipment to sort and stack lumber by length and thickness, move stacks to storage areas or drying kilns, and feed lumber through planers
- Monitor movement of lumber and computer screens to ensure cuts are made according to specifications, and print production reports
- Clean and lubricate sawmill equipment.

Employment requirements

- Completion of secondary school is usually required.
- College courses in wood processing technology may be required.
- Several weeks of on-the-job training are usually provided.

- Head sawyers and planer operators usually require several years of experience in other sawmill machine operating positions in the same company.
- A certificate in industrial first aid may be required.

Additional information

- There is some mobility among jobs in this occupational group.
- Progression to supervisory positions is possible with experience.

94121 Pulp mill, papermaking and finishing machine operators

Pulp mill and papermaking and finishing machine operators operate and monitor various types of processing machinery and equipment to produce pulp and assist papermaking and coating control operators to produce, coat and finish paper. They are employed by pulp and paper companies.

Illustrative example(s)

- assistant bleacher operator - pulp and paper
- assistant coating operator - pulp and paper
- calender operator - pulp and paper
- cook - pulp and paper
- digester operator - pulp and paper
- embossing calender operator - pulp and paper
- fourth hand - pulp and paper
- graderman/woman - pulp and paper
- grinderman/woman - pulp and paper
- paper machine operator
- paper-coating machine operator
- refiner operator - pulp and paper
- sheeter operator - pulp and paper
- thermomechanical pulp assistant operator
- thermomechanical pulp operator
- winder operator - pulp and paper
- winderman/woman - pulp and paper

Exclusion(s)

- Labourers in wood, pulp and paper processing (95103)
- Paper converting machine operators (94122)
- Pulping, papermaking and coating control operators (93102)
- Supervisors, forest products processing (92014)

Main duties

This group performs some or all of the following duties:

- Operate and monitor paper mill, papermaking and finishing process machinery and equipment such as screening equipment, bleaching equipment, digesters, mixing tanks, and washers to carry out one or more cellulose processing steps and equipment such as dryers, laminators, cutters, coaters, calenders and hoists to carry out one or more papermaking and finishing process steps

- Observe equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- Communicate with pulping, papermaking and coating control operators to make process adjustments and start up or shut down machinery and equipment as required
- Collect processing samples and conduct titration tests, pH readings, specific density tests and other routine tests on pulp and solutions
- Inspect paper visually for wrinkles, holes, discolouration, streaks or other defects and take corrective action
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is required.
- A college diploma in forest products processing or a related subject may be required.
- Completion of several weeks of formal company training and/or on-the-job training is required.
- Previous experience as a labourer within the same company is usually required.
- A certificate in industrial first aid may be required.
- A competency certificate in natural gas may be required.

Additional information

- There is limited mobility among jobs within this occupational group.
- Progression to pulping or papermaking and coating control operator occupations is possible with experience.

94122 Paper converting machine operators

Paper converting machine operators operate various machines which fabricate and assemble paper products such as paper bags, containers, boxes, envelopes and similar articles. They are employed by paper products manufacturing companies.

Illustrative example(s)

- box maker operator
- carton forming machine operator
- core maker - paper converting
- envelope maker operator
- paper bag machine operator
- paper box machine operator

Exclusion(s)

- Plateless printing equipment operators (94150)
- Printing press operators (73401)
- Pulp mill, papermaking and finishing machine operators (94121)

Main duties

This group performs some or all of the following duties:

- Operate machines which cut, fold, glue or clip paper and cardboard to make boxes, corrugated cartons and other articles
- Operate machines which glue paper to cardboard and cut it into required lengths
- Operate machines which press paper to form drinking cups and other containers
- Operate machines which cut, glue and fold paper to make envelopes or paper bags
- Operate other paper converting machines to form products such as paper tubes, cards, paper towels or diapers
- Clean and lubricate machine and perform other routine machine maintenance
- Set up machines.

Employment requirements

- Completion of secondary school is required by the pulp and paper industry and other large employers.
- Several weeks of on-the-job training are provided.
- Previous experience as a labourer within the same company may be required.

Additional information

- There is some mobility between jobs in this occupational group.

94123 Lumber graders and other wood processing inspectors and graders

Lumber graders and other wood processing inspectors and graders inspect and grade lumber, shingles, veneer, waferboard and similar wood products to identify defects, ensure conformance to company specifications and classify products according to industry standards. They are employed by sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Illustrative example(s)

- grader - wood processing
- grader tallyman/woman - wood processing
- lumber grader
- particleboard grader - wood processing
- plywood grader
- plywood inspector
- veneer grader
- wood measurer

Exclusion(s)

- Forest products technologist (See 22100-Chemical technologists and technicians)
- Log scaler (See 22112-Forestry technologists and technicians)
- Production technologist - sawmill (See 22302-Industrial engineering and manufacturing technologists and technicians)
- Supervisors, forest products processing (92014)

Main duties

This group performs some or all of the following duties:

Lumber graders

- Examine lumber visually for knots, holes, splits and other defects and sort for further drying, trimming or remanufacturing
- Measure lumber using callipers, gauges and tape measures to ensure specified thickness, length and width
- Classify and sort lumber according to industry standards and stamp lumber to indicate grade, wood type, moisture level and other characteristics
- Tally lumber
- Complete and maintain reports.

Other wood processing inspectors and graders

- Inspect plywood panels, veneer sheets, panelboards, shingles and similar wood products visually for knots, holes, splits, straightness and other defects
- Mark defects and sort for repair or reprocessing
- Measure wood products to ensure conformance to specifications using standard measuring instruments
- Grade and label wood products according to quality standards
- Complete and maintain inspection and grading reports.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training and up to two weeks of classroom training are provided for lumber graders.
- Previous experience as a sawmill machine operator, other wood processing operator or as a labourer in wood processing is usually required for graders and inspectors in this unit group.
- Lumber graders require a lumber grader's licence issued by a provincial lumber association.

Additional information

- There is some mobility between employers processing similar wood products.

94124 Woodworking machine operators

Woodworking machine operators set up, program and operate one or more woodworking machines to fabricate or repair wooden parts for furniture, fixtures or other wood products. They are employed in furniture, fixture and other wood products manufacturing establishments.

Illustrative example(s)

- boring machine operator - woodworking
- computer numerically controlled (CNC) band saw operator
- drill operator - woodworking
- drum sander - woodworking
- edge bander operator - woodworking
- glue machine operator - woodworking
- lathe operator - woodworking
- planer operator - woodworking
- rough mill operator - woodworking

- shaper - woodworking
- woodworking machine operator

Exclusion(s)

- Cabinetmakers (72311)
- Carpenters (72310)
- Woodworking machine operators supervisor - furniture and fixtures manufacturing (See 92022-Supervisors, furniture and fixtures manufacturing)

Main duties

This group performs some or all of the following duties:

- Set up, program and operate one or more computer numerically controlled (CNC) or manual woodworking machines such as saws, moulders, lathes, routers, planers, edgers, pressing machines, shapers, drills and sanders to fabricate or repair wooden parts for furniture, fixtures and other wood products
- Operate gluing machines to glue pieces of wood together or press and affix wood veneer to wood surfaces
- Operate preset special-purpose woodworking machines to fabricate wood products such as coat hangers, mop handles, clothes pins and other products
- Read and interpret specifications or follow verbal instructions
- May clean and lubricate equipment, and replace parts as necessary.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is usually provided.
- Experience as a labourer in the same company may be required.

Additional information

- Mobility is common among jobs in this unit group.
- Progression to supervisory positions is possible with experience.

94129 Other wood processing machine operators

Other wood processing machine operators operate and tend wood processing equipment and machines to remove bark from logs, produce wood chips, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products. They are employed in sawmills, woodrooms of pulp mills, planing mills, wood treatment plants, waferboard plants and other wood processing plants.

Illustrative example(s)

- barker operator
- chipper operator
- lumber kiln operator
- particleboard line operator
- plywood panel assembler
- timber treating tank operator
- veneer dryer tender

- veneer lathe operator
- waferboard press operator
- wood treater operator

Exclusion(s)

- Labourers in wood, pulp and paper processing (95103)
- Sawmill machine operators (94120)
- Supervisors, forest products processing (92014)

Main duties

This group performs some or all of the following duties:

- Operate and tend various wood processing equipment and machines to remove bark, knots and dirt from logs; reduce logs or sawmill waste into wood chips or flakes; stack and band lumber; screen wood chips; and produce waferboards, particleboards, hardboards and insulation boards
- Operate and tend conveyors, lathes, sanding machines and other equipment to peel and slice veneer from logs and log sections, and to glue, press, trim, sand and splice veneer sheets
- Operate and tend kilns, treating tanks and other equipment to dry lumber and other wood products, and to treat chemically and impregnate wood products with preservatives
- Observe equipment, panel indicators, video monitors, and other instruments to detect malfunctions and ensure that processes are operating according to specifications
- Assemble plywood panels and repair plywood and veneer mechanically or manually
- Start up, shut down, set up, adjust and assist in maintaining processing equipment and machines as required
- Complete and maintain production reports.

Employment requirements

- Completion of secondary school is usually required.
- Several weeks of on-the-job training are provided.
- For lumber kiln operators, particleboard operators and waferboard operators, some combination of college or company courses and up to one year of on-the-job training may be required.
- Previous experience as a labourer in wood processing may be required.

Additional information

- There is some mobility among jobs in this unit group.
- Progression to other positions in the wood, pulp and paper industries is possible with experience.

9413 Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing

This minor group comprises machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing, including textile fibre and yarn, hide and pelt processing machine operators and workers; weavers, knitters and other fabric making occupations; industrial sewing machine operators; inspectors and graders, textile, fabric, fur and leather products manufacturing. They are employed by textile manufacturing companies; leather tanning, fur dressing and leather and fur dyeing establishments; garment and mattress manufacturing companies; clothing manufacturers and other manufacturers of fabric products; furriers and fur products manufacturers; shoe and other leather products manufacturers; and footwear and other manufacturing establishments.

94130 Textile fibre and yarn, hide and pelt processing machine operators and workers

Textile fibre and yarn processing machine operators and workers operate machines to prepare textile fibres; spin, wind or twist yarn or thread; and bleach, dye or finish yarn, thread, cloth or textile products. They are employed by textile manufacturing companies. Hide and pelt processing machine operators and workers trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs. They are employed by leather tanning, fur dressing and leather and fur dyeing establishments.

Illustrative example(s)

- autoclave tender - textile manufacturing
- bleaching range operator - textile manufacturing
- calender operator - textile manufacturing
- carding machine operator - textile manufacturing
- dyeing range operator - textile manufacturing
- fabric-printing machine operator
- finishing range operator - textile manufacturing
- leather buffer - hide and pelt processing
- leather stretcher - hide and pelt processing
- tanner - hide and pelt processing
- twisting operator - textile manufacturing
- yarn doubler - textile manufacturing

Exclusion(s)

- Master dyer - textiles (See 22100-Chemical technologists and technicians)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)
- Textile colour technologist (See 22100-Chemical technologists and technicians)

Main duties

This group performs some or all of the following duties:

Textile fibre, yarn, hide and pelt processing machine operators

- Operate and feed machines that wash, mix, blend, pick, card, lap, comb or draw fibres, finish yarn, hides or pelts
- Operate spinning, twisting, winding or reeling machines
- Operate a variety of machines to clean, bleach, dye, coat or finish fabric, thread, yarn, hide, pelt and other textile products
- Mix dyes or chemicals according to established formulas
- Operate machinery to print designs onto textile products
- Oversee work area, examine products for defects and ensure adherence to quality standards
- Investigate machine stoppages and notify supervisor or mechanic in the event of equipment malfunction
- May set up machines and assist with maintenance and minor repairs to machinery.

Textile, hide and pelt dyeing and finishing machine operators

- Set up machines for proper processing
- Operate machines to bleach, dye, coat and finish fabric, thread, other textile products, hide or pelt
- Operate machines to print designs onto textile products or hide

- Examine products for defects and ensure adherence to quality standards
- Mix dyes and chemicals according to established formulas
- Notify supervisors and mechanics of equipment malfunctions.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training is provided for several weeks, depending on the complexity of the process and the number of machines operated.

Additional information

- Progression is possible within the group to operate more complex dye ranges and textile printing equipment.
- Progression to supervisory positions is possible with experience for fibre and yarn preparation machine operators and hide and pelt processing machine operators and workers.
- Progression to supervisory positions in textile processing usually requires completion of a college program in textiles, chemistry or a related subject.
- There is some mobility among jobs in this unit group.

94131 Weavers, knitters and other fabric making occupations

Weavers, knitters and other workers in fabric making occupations operate machines to process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric. This unit group also includes workers who perform activities such as reproducing patterns, drawing-in and tying warps and setting up looms. They are employed by textile companies and by garment and mattress manufacturing companies.

Illustrative example(s)

- carpet weaver
- drawer-in - textiles
- drawing-in machine operator
- embroidery machine operator
- hosiery knitter
- knitter - textiles
- knitting machine operator
- loom operator
- mattress sewing machine operator
- pinning machine operator
- quilting machine operator
- tufting operator
- warp knitting machine tender
- warp tier-in
- weaver - textiles

Exclusion(s)

- Craft weaver (See 53124-Artisans and craftspersons)
- Hand knitter (See 53124-Artisans and craftspersons)
- Industrial sewing machine operators (94132)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)
- Textile machinery mechanic (See 72400-Construction millwrights and industrial mechanics)

Main duties

This group performs some or all of the following duties:

- Set up looms or other processing machines
- Read loom patterns and prepare loom pattern mechanisms for processing
- Operate looms to weave yarn or thread into textile fabrics or products
- Operate machines that produce twine, ropes or nets
- Operate batteries of knitting machines to produce knitted fabric, hosiery, garments or other products
- Operate carpet tufting machines, felt making needle-punch machines and other machines to produce textile products
- Operate large automatic multi-needle machines to embroider material or to sew lengths of several layers of material to make yard goods, quilts or mattress coverings
- Patrol machines and check fabrics or products for defects and to verify efficient operation
- Investigate machine stoppages
- Repair minor mechanical problems such as broken or defective needles
- Notify supervisor or repairers of mechanical malfunctions.

Employment requirements

- On-the-job training is provided for periods up to several months, depending on the complexity of the product, whether equipment set-up and maintenance is done by the operator, and the number of machines operated.
- Previous experience as a labourer in the same company may be required for some operators in this group.

Additional information

- Mobility among employers may be limited by differences in machines and products.
- Progression to textile machinery mechanics and repairers or to supervisory positions is possible with experience and training.

94132 Industrial sewing machine operators

Industrial sewing machine operators operate sewing machines to sew fabric, fur, leather or synthetic materials to produce or repair garments and other articles. They are employed in clothing, footwear, textile products, fur products and other manufacturing establishments and by furriers.

Illustrative example(s)

- fur sewing machine operator
- leather products sewing machine operator
- lining stitcher
- sample sewer

- serging machine operator
- sewing machine operator
- shoe sewer

Exclusion(s)

- Embroidery machine operator (See 94131-Weavers, knitters and other fabric making occupations)
- Inspectors and graders, textile, fabric, fur and leather products manufacturing (94133)
- Mattress sewing machine operator (See 94131-Weavers, knitters and other fabric making occupations)
- Sewing machine operators supervisor (See 95105-Labourers in textile processing and cutting)

Main duties

This group performs some or all of the following duties:

- Assemble pieces of garments by matching patterns and dye lots
- Operate single, double or multi-needle serging, flat bed felling, banding and other sewing machines, to join sections of garments or other articles into finished products on a piece-work or production basis
- Operate fur sewing machines to join fur pelt strips to required size and shape and join pelts into garment sections or shells
- Operate stitching machines to sew leather parts together for leather garments, handbags, shoes and other leather articles
- Operate serging machines to sew and overcast edges of material simultaneously
- Operate tackers, pocketsetters, buttonhole makers and fusing, hemmer and other machines to perform various operations in the fabrication of garments and other articles
- Examine garments and operate sewing machines, sergers and other machines to repair garments and other articles during the manufacturing process
- Complete production reports
- May perform minor maintenance and repairs on sewing machine.

Employment requirements

- Some secondary school education is usually required.
- Experience operating a sewing machine is usually required.
- On-the-job training may be provided.

Additional information

- Industrial sewing machine operators may progress to supervisory positions with experience.

94133 Inspectors and graders, textile, fabric, fur and leather products manufacturing

Inspectors and graders in textile, fabric, fur and leather products manufacturing inspect and grade textile, fabric, fur and leather products. They are employed by textile companies, leather tanning and fur dressing establishments and garment, fur and leather products manufacturers.

Illustrative example(s)

- cloth inspector
- colour grader - textiles
- fabric examiner

- fibre inspector - textiles
- fur grader
- fur matcher - fur products manufacturing
- garment inspector
- hide and pelt processing inspector
- leather goods inspector
- leather grader
- quality control inspector - textiles
- shoe inspector
- textile grader
- textile product sampler
- yarn inspector

Exclusion(s)

- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)

Main duties

This group performs some or all of the following duties:

- Examine natural, synthetic and hybrid textile, fabric, fur and leather garments or products for conformity to quality standards
- Inspect and grade animal hides and pelts according to size, condition and weight
- Verify fit or size of finished garments and products by measuring or comparing products with samples and patterns
- Mark defects, repair minor imperfections, cut excess material using scissors, and remove lint and spots using brushes, lint removers and cleaning solutions
- Grade and sort finished products and tag according to size, style and quality
- Record information on products inspected
- May package products.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Work experience in the manufacturing of the products inspected is usually required.

Additional information

- There is limited mobility among the different inspectors and graders in this unit group.

9414 Machine operators and related workers in food, beverage and associated products processing

This minor group comprises machine operators and related workers in food, beverage and associated products processing, including process control and machine operators, food and beverage processing; industrial butchers and meat cutters, poultry preparers and related workers; fish and seafood plant workers; and testers and graders, food and beverage processing. They are employed by fruit and vegetable processing plants, dairies, flour

mills, bakeries, sugar refineries, meat plants, breweries, leaf tobacco products plants and other food, beverage and associated products processing establishments; meat and poultry slaughtering, processing and packing establishments; and fish and seafood processing plants.

94140 Process control and machine operators, food and beverage processing

Process control and machine operators in food and beverage processing operate multi-function process control machinery and single-function machines to process and package food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries, and other food and beverage processing establishments.

Illustrative example(s)

- bakery machine operator - food and beverage processing
- brewhouse operator
- canning machine operator
- chocolate refiner
- cigarette machine tender
- citrus juice extractor
- control room operator - food and beverage processing
- corn sugar refinery operator
- dry foods mixer operator
- dryer tender - tobacco processing
- fermenter operator
- fruit preserver - food and beverage processing
- fryer operator - food and beverage processing
- grain-processing machine operator
- meat grinder - food and beverage processing
- pasteurizer operator - food and beverage processing
- tobacco blender
- winery-press operator

Exclusion(s)

- Bakers (63202)
- Fish and seafood plant workers (94142)
- Industrial butchers and meat cutters, poultry preparers and related workers (94141)
- Labourers in fish and seafood processing (95107)
- Labourers in food and beverage processing (95106)
- Meat cutters and fishmongers - retail and wholesale (65202)
- Supervisors, food and beverage processing (92012)
- Testers and graders, food and beverage processing (94143)

Main duties

This group performs some or all of the following duties:

Process control operators

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to grind, extract, mix, blend, cook or otherwise process food products and to bag, box or otherwise package food products
- Operate multi-function process control machinery to grind, extract, mix, blend, distill, ferment or otherwise process alcoholic or non-alcoholic beverages and to bottle, can or otherwise package beverages
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments to process variables such as cooking times, ingredient inputs, flow rates and temperature settings
- Maintain shift log of production and other data.

Machine operators

- Set up and adjust food or beverage processing and packaging machines
- Operate single-function machines to grind, extract, mix, blend, dry, freeze, cook or otherwise process food or beverage products
- Operate single-function machines to box, can or otherwise package food or beverage products
- Check products to ensure conformance to company standards and clear machine blockages as required
- Record production information such as quantity, weight, size, date and type of products packaged
- Perform corrective machine adjustments, clean machines and immediate work areas.

Employment requirements

- Completion of secondary school may be required.
- On-the-job training is provided.
- Experience as a machine operator in food or beverage processing is usually required for industrial process control operators.
- Experience as a labourer in food or beverage processing may be required for machine operators.

Additional information

- There is little mobility among the various types of process control operators within the food and beverage processing industry.
- Process control operators may progress to supervisory positions in food and beverage processing with experience.
- There is mobility among machine operators within the food and beverage processing industry.
- Machine operators may progress to process control operation or supervisory positions in food and beverage processing with experience.

94141 Industrial butchers and meat cutters, poultry preparers and related workers

Industrial butchers and meat cutters, poultry preparers and related workers prepare meat and poultry for further processing or for packaging for wholesale distribution. They are employed in meat and poultry slaughtering, processing and packing establishments.

Illustrative example(s)

- beef boner

- ham cutter
- industrial butcher
- industrial meat cutter
- meat trimmer
- poultry preparer
- slaughterer

Exclusion(s)

- Butchers - retail and wholesale (63201)
- Labourers in food and beverage processing (95106)
- Meat grader (See 94143-Testers and graders, food and beverage processing)
- Meat inspector (See 22111-Agricultural and fish products inspectors)
- Meat packing supervisor (See 92012-Supervisors, food and beverage processing)

Main duties

This group performs some or all of the following duties:

Industrial butchers

- Slaughter livestock using stunning devices and knives
- Skin, clean and trim carcasses
- Remove viscera and other inedible parts from carcasses
- Split carcasses into smaller portions to facilitate handling
- May slaughter cattle, calves and sheep as prescribed by religious laws.

Industrial meat cutters

- Cut beef, lamb, pork or veal carcasses or sides or quarters of carcasses into primal cuts for further cutting, processing or packaging
- Remove bones from meat
- Cut meat and poultry into specific cuts for institutional, commercial or other wholesale use
- Remove skin, excess fat, bruises or other blemishes from carcasses or meat portions.

Poultry preparers

- Slaughter poultry and remove inedible parts
- Remove feathers and singe and wash poultry to prepare for further processing or packaging.

Employment requirements

- Completion of secondary school may be required.
- For industrial meat cutters, completion of a program in industrial meat cutting or experience as an industrial butcher is required.
- On-the-job training is provided for industrial butchers, meat cutters and poultry preparers.

Additional information

- Industrial meat cutters may progress to inspecting, testing and grading jobs.
- Progression to supervisory positions is possible with experience.

94142 Fish and seafood plant workers

Labourers in fish and seafood processing perform clean-up, packaging, material handling and other elemental activities related to fish and seafood processing. They are employed in fish and seafood processing and packaging plants.

Illustrative example(s)

- fish cake maker
- fish canning machine operator - fish processing
- fish cleaner and cutter - fish processing
- fish cutting machine operator - fish processing
- fish plant worker
- seafood preparer - fish and seafood processing
- shellfish processor
- shellfish shucker
- trimmer - fish processing

Exclusion(s)

- Labourers in fish and seafood processing (95107)
- Supervisors, food and beverage processing (92012)

Main duties

This group performs some or all of the following duties:

Fish and seafood plant machine operators

- Set up and operate machines to clean, cut, cook, smoke, brine, dehydrate or otherwise process fish or seafood products
- Set up and operate machines to can, bag, box or otherwise package fish and seafood products
- Check products and packaging for defects and to ensure conformance to company standards and perform corrective machine adjustments as required
- Record production information such as quantity, weight, date and type of products packaged.

Fish and seafood plant cutters and cleaners

- Cut, clean and trim fish or seafood prior to marketing or further processing
- Scrape away scales, cut fish, separate fillets and remove scrap parts using knife
- Check fish fillets to determine optimal number and size of fillet sections, cut sections according to specifications and place in container for weighing
- Disjoint and remove meat from lobsters or other crustaceans preparatory to canning or further processing.

Employment requirements

- Some secondary school education may be required.
- On-the-job training is required.

Additional information

- Progression to supervisory positions is possible with experience.

94143 Testers and graders, food and beverage processing

Testers and graders in food and beverage processing test or grade ingredients and finished food or beverage products to ensure conformance to company standards. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing plants.

Illustrative example(s)

- beef grader
- beer tester
- cheese grader
- fish grader
- milk grader
- poultry grader
- product tester - food and beverage processing
- tobacco grader

Exclusion(s)

- Agricultural and fish products inspectors (22111)
- Food processing quality control technician (See 22100-Chemical technologists and technicians)
- Food processing quality control technologist (See 22100-Chemical technologists and technicians)
- Supervisors, food and beverage processing (92012)

Main duties

This group performs some or all of the following duties:

- Take samples of products at various stages of processing
- Examine ingredients or finished products by sight, touch, taste and smell or weigh materials to ensure conformance to company standards
- Conduct routine tests for product specifications such as colour, alcohol content, carbonation, moisture content, temperature, fat content and packaging
- Grade or sort raw materials or finished products
- Ensure hygiene and sanitation practices conform to policies and regulations
- Advise supervisors of ingredient or product deficiencies.

Employment requirements

- Completion of secondary school is usually required.
- Experience as a machine operator or labourer in the food or beverage processing industry may be required.
- On-the-job training is usually provided.

Additional information

- There is little mobility among the various types of testers and graders in this unit group.
- Progression to supervisory positions is possible with experience.

9415 Printing equipment operators and related occupations

This minor group comprises printing equipment operators and related occupations, including plateless printing equipment operators; camera, platemaking and other prepress occupations; binding and finishing machine operators; and photographic and film processors. They are employed by rapid printing services, newspaper and magazine publishing companies and commercial printing companies; firms that specialize in colour graphics or platemaking and cylinder preparation and commercial publishing companies; binderies, other publishing companies and establishments in the public and private sectors that have in-house printing, binding and finishing departments; and film processing laboratories and retail photofinishing establishments.

94150 Plateless printing equipment operators

Plateless printing equipment operators operate laser printers, computerized high speed colour copiers and other printing machines to print text, illustrations and designs on a wide variety of materials such as paper, plastic, glass, leather, and metal. They are employed in rapid printing services, newspaper and magazine publishing companies, commercial printing companies and in manufacturing and other establishments that have in-house printing facilities.

Illustrative example(s)

- colour copier operator
- electronic sign maker operator
- embossing-imprinting machine operator
- laser printer operator
- printing machine operator - printing
- quick print machine operator
- silk-screen printing machine operator
- wallpaper printer

Exclusion(s)

- Printing press operators (73401)
- Supervisors, printing and related occupations (72022)
- Textile printer (See 94130-Textile fibre and yarn, hide and pelt processing machine operators and workers)

Main duties

This group performs some or all of the following duties:

- Review work order to determine job specifications, such as ink colour and quantity required
- Set up and make adjustments to printing machine, such as filling ink or paint reservoirs and loading stock
- Input codes and key in programming data on console keyboard of computerized machines
- Operate and monitor printing machines during print run and make adjustments as required
- Clean machines and replace worn parts.

Employment requirements

- Completion of secondary school may be required.
- Completion of college or other specialized courses in printing may be required.
- On-the-job training is provided.

94151 Camera, platemaking and other prepress occupations

Camera and platemaking workers operate graphic arts cameras and scanners, assemble film and negatives and prepare, engrave and etch printing plates or cylinders for various types of printing presses. They are employed in firms that specialize in colour graphics or platemaking and cylinder preparation, commercial publishing and printing companies, newspapers, magazines, and in various establishments in the public and private sectors that have in-house printing departments.

Illustrative example(s)

- camera operator - graphic arts
- cylinder preparer - printing
- dot etcher - printing
- file preparation operator
- film stripper-assembler
- platemaker - printing
- pre-flight operator - printing
- prepress technician
- printing plate engraver
- proofmaker
- screenmaker
- studio-image-processing system operator

Exclusion(s)

- Desktop publishing (DTP) operator (14112-Desktop publishing operators and related occupations)
- Graphic arts technicians (52111)
- Graphic designers and illustrators (52120)
- Photographic and film processors (94153)
- Supervisors, printing and related occupations (72022)

Main duties

This group performs some or all of the following duties:

Graphic arts camera operators, scanner operators, film strippers and assemblers

- Set up and adjust black and white or colour separation process cameras to convert graphic art and photographs into film for assembly and exposure onto printing plates or cylinders
- Operate computerized scanning machines or digital cameras to make colour separations and corrections from colour copy or transparencies for use in preparing film, digital files, printing plates or cylinders
- Assemble and position, either using automated equipment or by hand, pieces of film containing all parts of a printing job to produce flats or composite negatives for preparing printing plates or cylinders.

Etchers and engravers

- Examine the text, design, or pattern to determine how it will be etched or engraved onto the workpiece
- Prepare surface of workpiece for etching or engraving by cleaning, polishing, treating, and applying additional methods
- Etch or engrave the text, design or pattern onto the workpiece using hand tools, etching machines, photogravure or laser processes.

Prepress technicians, platemakers, proofmakers, and pre-flight/file-preparation operators

- Operate various computer-controlled studio systems to perform colour separation, retouching and editing that allow changes to be made to a colour negative for printing purposes, plan page layouts and electronically alter shape, size and positions of illustrations and text
- Prepare and initiate the development of printing plates for the offset process and are responsible for the maintenance of plate flasher type devices (CTP, Computer to plate)
- Operate vacuum frames, plate processors and step and repeat machines to produce printing plates for various types of presses
- Operate computerized equipment to prepare film, laser or dylux proofs for quality control purposes and for customers' review.

Employment requirements

- Completion of secondary school is required.
- Completion of a college program in graphic arts technology or a combination of on-the-job training and specialized college, industry or other courses may be required.
- Trade certification for some occupations in this group is available, but voluntary, in Ontario, Alberta, the Northwest Territories and Nunavut.

94152 Binding and finishing machine operators

Binding and finishing machine operators set up, operate or oversee the operation of machines, equipment or computerized units that bind and finish printed material. Workers who perform finishing operations in the paper, carton and packaging industries, as well as those who encode and stamp plastic cards, are included in this unit group. They are employed by binderies, commercial printing companies, newspapers, magazines, and other publishing companies, and establishments in both the public and private sectors that have in-house printing, binding and finishing departments.

Illustrative example(s)

- binder - printing
- binder and finisher
- bindery operator
- bookbinding machine operator
- Cerlox binder operator
- cutter operator - printing
- finishing machine operator - printing
- foil stamper - printing
- gathering machine set-up operator - printing
- gold leaf stamper
- laminating machine operator
- machine bookbinder
- perforator operator - printing
- stitcher operator - printing

Exclusion(s)

- Feeder - printing (See 95109-Other labourers in processing, manufacturing and utilities)
- Hand bookbinder (See 53124-Artisans and craftspersons)

- Offbearer - printing (See 95109-Other labourers in processing, manufacturing and utilities)
- Pocket-folding machine feeder-loader - printing (See 95109-Other labourers in processing, manufacturing and utilities)
- Printing press operators (73401)
- Supervisors, printing and related occupations (72022)

Main duties

This group performs some or all of the following duties:

- Set up and operate specialized equipment and machines that cut, fold, gather and bind or finish brochures, pamphlets, business forms, magazines, books and other printed material
- Set up and operate specialized equipment and machines that die cut, emboss, imprint, laminate, heat stamp and perform other finishing operations on printed material
- Perform pre-production runs of binding or finishing jobs to verify output and to ensure that product specifications are met
- Operate automatic and semi-automatic equipment and machines to bind or finish print material according to specifications
- Pack, weigh and stack bound and finished products on pallet for shipment
- May repair and rebind damaged or worn books.

Employment requirements

- Completion of secondary school is usually required.
- Completion of a college program in graphic arts technology or a combination of on-the-job training and specialized college, industry or other courses may be required.

Additional information

- There is some mobility among various types of binding and finishing machine operator occupations in this group.
- Progression to supervisory positions is possible with experience.

94153 Photographic and film processors

Photographic and film processors process and finish still photographic film and motion picture film. They are employed in film processing laboratories and retail photofinishing establishments.

Illustrative example(s)

- darkroom technician
- film developer
- film printing machine operator
- film processor
- photofinisher
- photograph developer
- photograph inspector - photographic processing
- photographic processor

Exclusion(s)

- Film stripper-assembler (See 94151-Camera, platemaking and other prepress occupations)
- Negative spotter - printing (See 94151-Camera, platemaking and other prepress occupations)
- Photographic and film processing supervisor (See 72022-Supervisors, printing and related occupations)

Main duties

This group performs some or all of the following duties:

- Operate equipment to develop negatives and slides, and to print black and white and colour photographs
- Operate photographic enlarging equipment to produce prints and enlargements from negatives
- Operate equipment to develop motion picture film
- Tend automatic equipment in retail establishments to develop colour negatives, prints and slides
- Operate equipment to transfer film to video tape
- Retouch photographic negatives or original prints to correct defects
- Splice film and mount film on reels
- Measure and mix chemicals required for processing
- Inspect rolls of photographic prints for conformance to specifications; or motion picture film to detect defects in developing and printing.

Employment requirements

- Completion of secondary school is usually required.
- For employment in film processing laboratories, completion of a college or other specialized photography program or extensive related experience is required.
- For employment as a film printing machine operator in retail outlets, on-the-job training is provided.

Additional information

- There is mobility among occupations within laboratory processing operations.
- Progression is possible from automatic machine tenders in retail establishments to laboratory processing occupations.

942 Assemblers and inspectors in manufacturing

This sub-major group comprises assemblers and inspectors in manufacturing, including mechanical, electrical and electronics assemblers and inspectors, and furniture, wood, plastic and other products assemblers, finishers and inspectors.

9420 Mechanical, electrical and electronics assemblers and inspectors

This minor group comprises mechanical, electrical and electronics assemblers and inspectors, including motor vehicle assemblers, inspectors and testers; electronics assemblers, fabricators, inspectors and testers; assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing; assemblers, fabricators and inspectors, industrial electrical motors and transformers; mechanical assemblers and inspectors; and machine operators and inspectors, electrical apparatus manufacturing. They are employed by plants which manufacture automobiles, vans and light trucks; electronics manufacturing plants; electrical appliance and electrical equipment manufacturing companies; manufacturers of industrial electric motors, transformers, control equipment, railway locomotives, transit vehicles and other heavy electrical equipment; machinery and transportation equipment manufacturers; and by other manufacturing companies.

94200 Motor vehicle assemblers, inspectors and testers

Motor vehicle assemblers assemble and install prefabricated motor vehicle parts and components to form subassemblies and finished motor vehicles. Motor vehicle inspectors and testers inspect and test parts, subassemblies, accessories and finished products to ensure proper performance and conformity to quality standards. They are employed in plants which manufacture automobiles, vans and light trucks.

Illustrative example(s)

- assembly inspector - motor vehicle manufacturing
- auto assembly worker
- body assembler - motor vehicle manufacturing
- car assembler
- chassis inspector - motor vehicle manufacturing
- door fitter
- motor vehicle assembler
- sport utility vehicle (SUV) assembler
- test driver - automobile assembly
- transmission installer
- van assembler

Exclusion(s)

- Automobile assembly painter (See 94213-Industrial painters, coaters and metal finishing process operators)
- Automotive mechanical repairer (See 72410-Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Mechanical assemblers and inspectors (94204)
- Supervisors, motor vehicle assembling (92020)
- Vehicle cleaner-coater (See 94213-Industrial painters, coaters and metal finishing process operators)

Main duties

This group performs some or all of the following duties:

Motor vehicle assemblers

- Read electrical schematics, blueprints and other technical diagrams
- Bolt, screw, clip, weld, solder or otherwise fasten motor vehicle parts and components together using hand and power tools and equipment
- Operate and tend automated assembling equipment such as robotic and fixed automation equipment
- Connect cables, tubes and wires to complete assemblies and installations
- Position and install parts, subassemblies and accessories such as engines, transmissions, door panels or instrument panels using hand and power tools and other aids such as overhead hoists
- Fit and adjust parts such as doors, hoods and trunk lids.

Motor vehicle inspectors and testers

- Check motor vehicle exterior priming and colour coats, sealers and glazers, and mark, record and report defects to be repaired
- Test motor vehicle electrical assemblies, equipment and wiring for proper performance using testing devices such as meters, analyzers and timing lights

- Inspect auto parts and fully assembled motor vehicles for defects to ensure that the defects have been corrected
- Drive and test motor vehicles on roll testing device to ensure that transmission, axle, engine and brakes function properly.

Employment requirements

- Completion of secondary school is usually required.
- Skills required for occupations in this unit group are normally acquired through on-the-job training.

Additional information

- Mobility is possible to jobs in the same production department.
- Progression to supervisory positions is possible with experience.

94201 Electronics assemblers, fabricators, inspectors and testers

Electronics assemblers and fabricators assemble and fabricate electronic equipment, parts and components. Electronics inspectors and testers inspect and test electronic and electromechanical assemblies, subassemblies, parts and components to ensure conformance to prescribed standards. They are employed in electronics manufacturing plants.

Illustrative example(s)

- capacitor assembler
- circuit board assembler
- component inserting machine operator
- crystal final tester
- electronic components tester
- electronics assembler
- electronics inspector - electronic equipment manufacturing
- finished product inspector - electronic equipment manufacturing
- precision instrument assembler - electronic equipment manufacturing
- printed circuit board (PCB) assembly inspector
- surface mount assembler
- through-hole assembler
- wafer fabrication operator
- wave soldering machine operator
- wiring and assembly operator

Exclusion(s)

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (94202)
- Electrical and electronics engineering technologists and technicians (22310)
- Electronic service technicians (household and business equipment) (22311)
- Supervisors, electronics and electrical products manufacturing (92021)

Main duties

This group performs some or all of the following duties:

Electronics assemblers and fabricators

- Solder and manually assemble various electronic components such as resistors, diodes, transistors, capacitors, integrated circuits, switches, wires and other electronic parts to designated locations on printed circuit boards
- Assemble microcircuits requiring fine hand assembly, the use of microscopes and adherence to cleanroom procedures
- Install, mount, fasten, align and adjust parts, components, wiring and harnesses to subassemblies and assemblies using hand and small power tools
- Operate automatic and semi-automatic machines to position, solder and clean prescribed components on printed circuit boards
- Operate and monitor process equipment including automatic and semi-automatic machines to fabricate electronic components, solder, clean, seal and stamp components and perform other process operations as specified
- Set up process equipment and adhere to cleanroom procedures as required
- May replace defective components and repair and overhaul older devices.

Electronics inspectors and testers

- Inspect electronic components and assemblies to ensure correct component selection and placement, wiring and soldering quality, proper pin insertions, location and diameter of plated holes, breaks in circuitry and line spacing in printed circuit board and other specified requirements while products are being assembled or fabricated
- Check final assembly for finish, labelling and packaging methods
- Check mechanical dimensions and perform “go-no-go” electrical tests
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results
- Investigate equipment malfunction and instruct on proper operation
- Operate various test equipment and tools to perform simple electrical and continuity testing of electronic components, parts and systems
- Set up and operate automatic testing equipment to locate circuit and wiring faults, shorts and component defects
- Compare test results to specifications and set parts or products aside for repair or replace components or parts as indicated by test equipment
- Maintain test result reports
- May conduct life tests (burn-ins) on components, subassemblies and assemblies.

Employment requirements

- Completion of secondary school is usually required for electronics assemblers, fabricators, inspectors and testers.
- On-the-job training is usually provided for occupations in this unit group.
- A two-year apprenticeship program and trade certification for electronics assemblers are available but voluntary in Saskatchewan.

- Electronics testers may require post-secondary courses in basic electronic theory, testing techniques and testing equipment.
- Electronics inspectors and testers may require experience as an electronics assembler or component fabricator.

Additional information

- Progression from electronics assembler or component fabricator to electronics inspector or tester is possible with additional training and experience.

94202 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing

Assemblers in electrical appliance, apparatus and equipment manufacturing assemble prefabricated parts to produce household, commercial and industrial appliances and equipment. Inspectors inspect and test the assembled products. This unit group also includes workers who set up and prepare assembly lines for operation. They are employed by electrical appliance and electrical equipment manufacturing companies.

Illustrative example(s)

- circuit breaker assembler
- coffee maker assembler
- dishwasher assembler
- electric clothes dryer assembler
- electric lawn mower assembler
- electric refrigerator assembler
- electrical appliance assembler
- electrical appliance assembly inspector
- electrical control assembly inspector
- electrical equipment production assembler
- hair dryer assembler

Exclusion(s)

- Appliance servicers and repairers (72421)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (94203)
- Electrical mechanics (72422)
- Electronics assemblers, fabricators, inspectors and testers (94201)
- Machine operators and inspectors, electrical apparatus manufacturing (94205)
- Supervisors, electronics and electrical products manufacturing (92021)

Main duties

This group performs some or all of the following duties:

Assemblers

- Assemble prefabricated parts on an assembly line, or at work benches using screw guns and other hand and power tools
- Assemble small and large household electrical appliances such as coffeemakers, toasters, vacuum cleaners, lawn mowers, refrigerators and dishwashers

- Assemble small transformers, small electrical motors and transmissions used in appliances or other electrical products
- Assemble circuit breakers, switches or other electrical control equipment and position and fasten components such as springs, toggles or other parts into assembly casings
- Wind coils and armatures for small electric motors and transformers
- Perform minor repairs to products rejected from production assembly line
- Set up assembly line with materials and supplies required for production, and set up and adjust production tools.

Inspectors and testers

- Check products at different stages of production for visual defects and faulty electrical and mechanical connections, or operate automatic or other testing equipment to ensure product quality
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results.

Employment requirements

- Completion of secondary school is usually required.
- On-the-job training is provided.
- Inspectors may require experience as an assembler in the same company.
- Some types of inspectors may require completion of a college program in electronics.

Additional information

- With experience assemblers may progress to inspecting and testing positions.
- Progression to supervisory positions is possible with experience.

94203 Assemblers, fabricators and inspectors, industrial electrical motors and transformers

Assemblers, fabricators and inspectors of industrial electrical motors and transformers assemble, fabricate, fit, wire and inspect heavy-duty industrial electrical equipment. They are employed by manufacturers of industrial electric motors, transformers, control equipment, railway locomotives, transit vehicles and other heavy electrical equipment.

Illustrative example(s)

- alternating current (AC) and direct current (DC) motor inspector and tester
- alternating current (AC) and direct current (DC) motors fitter-assembler
- control panel assembler
- electrical control panel inspector
- electrical fitter
- electrical switchgear panel wirer
- motor and generator assembler and wirer
- panelboard assembler - industrial electrical equipment
- power transformer assembler
- switchgear and control panel assembler - industrial electrical equipment
- switchgear fitter-wirer
- transformer coil winder

- transformer inspector
- transformer winder

Exclusion(s)

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (94202)
- Electrical and electronics engineering technologists and technicians (22310)
- Electrical mechanics (72422)
- Supervisors, electronics and electrical products manufacturing (92021)

Main duties

This group performs some or all of the following duties:

Assemblers

- Assemble and fit metal and other prefabricated parts to close tolerances according to blueprints to build heavy-duty electric motors or transformers
- Assemble stators or armatures for heavy-duty electric motors; compress steel laminations to build transformer cores; assemble windings into core using overhead cranes and make electrical connections using crimping, brazing and soldering equipment
- Assemble and fit electrical motor or transformer auxiliary equipment such as bushings, tap changes, conduit boxes, heating devices, protective equipment and cooling equipment
- Set up and adjust production machinery and equipment, such as coil winding machines, for the manufacture of heavy-duty electrical equipment
- May perform basic tests on electric motors.

Electrical fitters and wirers

- Interpret engineering drawings, electrical schematics and blueprints
- Fit motor starters, contactors, capacitors, circuit breakers, voltage regulators, printed circuit boards or other electrical control devices into switchboards and panelboards to produce automated processing control equipment, electrical distribution panels, or other industrial electrical control equipment
- Wire electrical connections for switchboards and panelboards
- Assemble panelboard and switchboard cabinets and install bus bars used to carry heavy electrical current
- May operate metal fabricating equipment to fabricate or modify bus bars.

Inspectors

- Monitor production and troubleshoot production problems
- Check final assembly of electric motors, transformers or control equipment for adherence to quality control standards
- Collect, record and summarize inspection results.

Employment requirements

- Completion of secondary school is usually required.
- College courses in electricity or electro-technology may be required.
- Several years of on-the-job training are usually provided.
- Set-up persons, inspectors and leadhands in this unit group may require experience as an assembler, fitter or wirer in the same company.

Additional information

- Progression to supervisory positions is possible with experience.

94204 Mechanical assemblers and inspectors

Mechanical assemblers assemble a wide variety of mechanical products such as trucks, buses, snowmobiles, garden tractors, automotive engines, transmissions, outboard motors, gearboxes, hydraulic pumps and sewing machines. Inspectors check and inspect subassemblies and finished products to ensure proper quality and product specifications. They are employed by machinery and transportation equipment manufacturers and by other manufacturing companies.

Illustrative example(s)

- automotive engine assembler
- garden machinery assembler
- gearbox assembler
- gearcase assembler
- hydraulic hoist assembler
- mechanical assembler
- sewing machine assembler
- snowmobile assembler
- tractor assembler
- transmission assembler
- truck assembler
- truck assembly inspector
- truck trailer assembler
- vending machine assembler

Exclusion(s)

- Aircraft assemblers and aircraft assembly inspectors (93200)
- Machine fitters (72405)
- Motor vehicle assemblers, inspectors and testers (94200)
- Supervisors, other mechanical and metal products manufacturing (92023)

Main duties

This group performs some or all of the following duties:

Mechanical assemblers

- Assemble, fit and install prefabricated parts to form subassemblies or finish products using hand and power tools
- Position, align and adjust parts for proper fit and assembly and connect cables, tubes and wires
- Fasten parts together using bolting and riveting equipment or other fastening and joining techniques
- Operate or tend automated assembling equipment, such as robotics and fixed automation equipment
- Operate small cranes to transport or position larger parts as required.

Mechanical inspectors

- Check subassemblies and inspect finished products for proper quality
- Check mechanical assemblies and subassemblies for alignment and proper functioning
- Test and check electrical assemblies and wiring for proper connections
- Perform minor adjustments and repairs.

Employment requirements

- Some secondary school education is required.
- Up to two years of on-the-job training are provided.
- Experience as a mechanical assembler may be required for inspectors in this unit group.

Additional information

- There is little or no mobility among the various assemblers and inspectors in this unit group.
- Progression to supervisory positions is possible with experience.

94205 Machine operators and inspectors, electrical apparatus manufacturing

Machine operators and inspectors in electrical apparatus manufacturing operate machinery or equipment to fabricate complete products or parts for use in the assembly of electrical appliances and equipment, and electrical apparatus, such as batteries, fuses and plugs. Inspectors in this unit group inspect and test completed parts and production items. Workers in this unit group are employed by electrical appliance and electrical equipment manufacturing companies.

Illustrative example(s)

- assembly machine setter - electrical equipment manufacturing
- dry cell charge machine operator
- electrical dry battery inspector
- electrical light bulb inspector
- epoxy coating machine operator
- machine operator - electrical equipment manufacturing
- machine set-up operator - electrical appliance manufacturing
- production line battery repairer - electrical equipment manufacturing

Exclusion(s)

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (94202)
- Supervisors, electronics and electrical products manufacturing (92021)

Main duties

This group performs some or all of the following duties:

Machine operators in electrical apparatus manufacturing

- Operate machinery to assemble, test or package dry cell batteries
- Position lead acid storage batteries on assembly line and insert battery contents into casing
- Operate machinery, such as pasting and stacking machines, to fabricate plates for lead acid storage batteries

- Load machinery with glass tubes, bulbs and other parts used to produce incandescent, fluorescent and other types of light bulbs and tubes, and remove and pack finished product
- Operate or feed machinery and equipment to produce electrical wiring devices such as fuses, plugs, caps, sockets, connectors and switches
- Operate equipment to apply protective coatings to items such as freezer cabinets, small electric motors or transformer assemblies
- Perform minor repairs to items rejected from production line
- Set up and adjust production machinery and equipment for operation.

Inspectors and testers in electrical apparatus manufacturing

- Check in-process and completed production items for visual or mechanical defects or operate testing equipment to maintain quality of products
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results.

Employment requirements

- Some secondary school education is usually required.
- On-the-job training is provided.
- Inspectors may require experience as an assembler in the same company.

Additional information

- With experience, machine operators may progress to inspecting and testing positions.
- Progression to supervisory positions is possible with experience.

9421 Furniture, wood, plastic and other products assemblers, finishers and inspectors

This minor group comprises furniture, wood, plastic and other products assemblers, finishers and inspectors, including furniture and fixture assemblers, finishers, refinishers and inspectors; assemblers and inspectors of other wood products; plastic products assemblers, finishers and inspectors; industrial painters, coaters and metal finishing process operators; and other products assemblers, finishers and inspectors. They are employed by furniture manufacturing companies; establishments engaged in manufacturing a variety of wood and millwork products; retail furniture stores and furniture refinishing and repair shops; plastic products manufacturing companies and plastic parts divisions of aircraft and other manufacturing companies; custom refinishing, coating and plating shops; and a wide variety of manufacturing companies; or they may be self-employed.

94210 Furniture and fixture assemblers, finishers, refinishers and inspectors

Furniture and fixture assemblers assemble parts to form subassemblies or complete articles of furniture and fixtures. Furniture finishers finish new wood or metal furniture to specified colour and finish. Furniture refinishers refinish repaired, used or old furniture. Inspectors inspect furniture and fixture subassemblies and finished products to ensure product quality. They are employed by furniture manufacturing companies, manufacturing plants, retail furniture stores, refinishing and repair shops, or may be self-employed.

Illustrative example(s)

- assembly inspector - furniture manufacturing
- chair assembler
- desk assembler
- fixture assembler

- furniture assembler
- furniture finisher
- furniture inspector
- furniture polisher - furniture finishing
- furniture refinisher
- furniture stainer
- furniture stripper
- metal furniture assembler
- table assembler
- touch-up person - furniture finishing
- trimmer - furniture finishing
- wash-off operator - furniture finishing
- wood finisher - furniture finishing and refinishing
- wood furniture assembler

Exclusion(s)

- Assemblers and inspectors of other wood products (94211)
- Supervisors, furniture and fixtures manufacturing (92022)
- Upholsterers (63221)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

Furniture and fixture assemblers

- Prepare, sand and trim wooden furniture and fixture parts using hand and power tools
- Assemble wooden or metal furniture and fixture parts to form subassemblies and complete articles using hand and power tools
- Assemble a combination of parts made of wood, metal, plastic, cane or other materials to form subassemblies or complete furniture articles
- Reinforce assembled furniture and fixtures with dowels or other supports
- Install hardware such as hinges or clasps on furniture and fixtures.

Furniture finishers

- Set up and operate finishing machines or finish furniture by hand
- Stain or finish wood to specified colour with stains, paints or other materials using brush or spray gun
- Apply toners, highlights, glazes or shaders to obtain desired finish
- Apply lacquer or other sealers
- Decorate wood surfaces or mark surfaces to create antique or other effects using hand and power tools
- Clean and polish furniture
- Sand metal furniture to prepare for finish and spray with paint or other materials.

Furniture refinishers

- Strip old finish from wood surfaces using steel wool, sandpaper and solvents
- Smooth gouges with wood filler and sand wood
- Match colours to obtain original finish and apply appropriate finish to stripped wood
- Polish and wax refinished surfaces
- Sand or grind metal surfaces to prepare for coating, and paint metal surfaces using electrostatic method, spray gun or other painting equipment
- Make minor repairs to furniture
- May perform duties of furniture finisher.

Furniture and fixture inspectors

- Inspect furniture and fixture subassemblies and finished products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

Employment requirements

- Secondary school education is usually required.
- On-the-job training is provided.
- Experience as a labourer in the same company may be required for furniture and fixtures assemblers and inspectors.
- College, high school or industry courses in furniture finishing or refinishing may be required.

Additional information

- Mobility is possible between jobs in this unit group.
- Progression to supervisory positions is possible with experience.

94211 Assemblers and inspectors of other wood products

Assemblers of other wood products assemble a variety of wood products and millwork, such as window sashes and doors. Inspectors inspect wood products to ensure product quality. They are employed by establishments engaged in manufacturing a variety of wood and millwork products.

Illustrative example(s)

- manufactured housing production worker
- millwork assembler
- prefabricated housing assembler
- sash and door inspector
- wood products assembler
- wood products assembling inspector
- wood products bench assembler
- wooden box assembler
- wooden crate builder

- wooden door maker
- wooden pallet maker

Exclusion(s)

- Cabinetmakers (72311)
- Carpenters (72310)
- Furniture and fixture assemblers, finishers, refinishers and inspectors (94210)
- Supervisors, other products manufacturing and assembly (92024)
- Woodworking machine operators (94124)

Main duties

This group performs some or all of the following duties:

Other wood products assemblers

- Read production orders and diagrams
- Trim and sand joints, moulding, or other wooden parts to be assembled using hand and power tools
- Assemble wood products such as window sashes, doors, boxes, pallets, ladders and barrels using glue, staples, screws, bolts or other fasteners
- Assemble door panels, trusses, modular components and other parts on assembly line to make prefabricated housing using jigs, overhead cranes and hand and power tools
- Reinforce assembled products with dowelling or other supports, and install hardware such as knobs and hinges
- May assist with maintenance of machinery.

Other wood products inspectors

- Inspect wood products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

Employment requirements

- Secondary school education is usually required.
- Experience as a labourer in the same company may be required.
- Inspectors may require related assembly experience.
- On-the-job training is provided.

94212 Plastic products assemblers, finishers and inspectors

Plastic products assemblers, finishers and inspectors assemble, finish and inspect plastic parts and finished products. They are employed by plastic products manufacturing companies and plastic parts divisions of aircraft or other manufacturing companies.

Illustrative example(s)

- fibreglass laminator
- plastic bottle trimmer
- plastic parts assembler

- plastic products fabricator
- plastic products inspector and tester
- plastic tank assembler
- plastics assembler
- plastics inspector
- plastics trimmer
- skylight assembler - plastic products manufacturing

Exclusion(s)

- Labourers in rubber and plastic products manufacturing (95104)
- Plastics processing machine operators (94111)
- Rubber processing machine operators and related workers (94112)
- Supervisors, plastic and rubber products manufacturing (92013)

Main duties

This group performs some or all of the following duties:

Plastic products assemblers and finishers

- Operate machines or equipment, or use hand tools to cut, shape, splice and fit plastic materials to form parts and assemblies
- Assemble composite materials on patterns to form parts and assemblies using bonding agents
- Operate spray-gun unit to apply resin mixtures to metal or wooden mould to form plastic products
- Load and operate autoclave oven to cure and bond plastic and composite parts and subassemblies
- Operate finishing equipment to trim, grind or buff plastic products into final form.

Plastic products inspectors

- Inspect manufactured plastic products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved plastic products and mark and reroute defective products for repair or recycle
- Prepare reports on products inspected
- Make minor adjustments and repairs to products
- May train or assist in training new workers.

Employment requirements

- Secondary school education is usually required.
- Experience as a labourer in the same company may be required for assemblers, finishers and inspectors.
- On-the-job training is provided.

Additional information

- Mobility among the various workers in this unit group is possible.
- Progression to supervisory positions is possible with experience.

94213 Industrial painters, coaters and metal finishing process operators

Industrial painters and coaters operate and tend machines or use brushes and spray equipment to apply paint, enamel, lacquer or other non-metallic protective and decorative coatings to surfaces of various products. Metal finishing process operators operate machines or equipment to deposit metallized substances on workpieces and surfaces to provide decorative, protective and restorative coatings. These workers are employed by manufacturing companies and custom refinishing, coating and plating shops.

Illustrative example(s)

- assembly line painter
- automatic paint-sprayer operator
- automobile painter - motor vehicle manufacturing
- aviation painter
- ceramic and enamel refinisher
- coating machine operator - industrial painting and coating
- electrogalvanizing machine operator
- enameller - ship and boat building
- hot-dip galvanizer - metal plating
- industrial products painter
- metal coater operator
- metal electroplater
- production painter-finisher
- spray paint operator

Exclusion(s)

- Auto body collision, refinishing and glass technicians and damage repair estimators (72411)
- Furniture and fixture assemblers, finishers, refinishers and inspectors (94210)
- Machining tool operators (94106)
- Painters and decorators (except interior decorators) (73112)
- Supervisors, motor vehicle assembling (92020)
- Supervisors, other mechanical and metal products manufacturing (92023)
- Supervisors, plastic and rubber products manufacturing (92013)

Main duties

This group performs some or all of the following duties:

Industrial painters and coaters

- Select appropriate paint or mix paints using automated paint mixing equipment according to a predetermined formula
- Operate or tend equipment to clean, wash, strip, sand, remove corrosion, fill dents or otherwise prepare items for application of paint, lacquer or other protective or decorative coatings
- Operate or tend automated spray paint, dip or flow coating equipment or other mechanized painting or product coating application equipment
- Operate hand-held spray guns to spray paint or coat stationary items or items on moving conveyor system with protective or decorative coatings
- Paint small items and apply touch-ups using paint brushes

- Clean and maintain painting and coating, ventilation, compressed air and personal protective equipment
- May prepare and apply stencils, computer-generated decals or other decorative items on finished products.

Industrial metal finishing process operators

- Prepare and mix metallizing solutions according to formulas or specifications
- Operate or tend equipment to clean, degrease, pickle and etch metal and non-metal surfaces to prepare workpieces with desired surface characteristics
- Tend automatic metal coating machines which convey objects through a series of cleaning, rinsing and plating solutions
- Operate and control electroplating equipment to coat metal and other workpieces
- Operate hot-dip metal plating equipment to galvanize metal and other workpieces
- Operate spray equipment to build up worn or damaged parts or to bond protective or decorative coatings on various objects
- Check proper thickness of plating using micrometers, calipers or other devices
- May operate equipment to polish metallic surfaces of products
- May tend ovens which cure metal coating.

Employment requirements

- Secondary school education is usually required.
- Some experience in operating production machinery or equipment may be required.
- Several months of on-the-job training are usually provided.
- Some industrial painters, such as aviation painters, may require specialized training and certification or college courses.

Additional information

- Progression to supervisory positions is possible with experience.

94219 Other products assemblers, finishers and inspectors

Other products assemblers, finishers and inspectors assemble, finish and inspect components or products of various materials, such as jewellery, silverware, buttons, pencils, non-prescription lenses, brushes, clocks and watches, musical instruments, sporting goods, toys, boats and other miscellaneous products. They are employed by a wide variety of manufacturing companies.

Illustrative example(s)

- aluminum boat assembler
- antenna assembler
- bicycle assembler
- boat assembler
- boat inspector
- brush making machine operator
- button machine operator
- camera assembly inspector
- canoe assembler
- crayon making machine tender

- eyeglass frame assembler
- fibreglass boat assembler
- golf club assembler
- jewellery annealer
- jewellery inspector
- lampshade assembler
- motorboat assembler
- piano assembly inspector
- prism maker operator
- sailboat assembler
- skate press operator
- sports ball moulder
- stuffing machine tender
- tennis ball maker operator
- toy inspector
- Venetian blind assembler
- watch assembler

Exclusion(s)

- Boat assembly helper (See 95109-Other labourers in processing, manufacturing and utilities)
- Boat assembly labourer (See 95109-Other labourers in processing, manufacturing and utilities)
- Canoe builder - arts and crafts (See 53124-Artisans and craftspersons)
- Marine repair technician (See 72423-Motorcycle, all-terrain vehicle and other related mechanics)
- Metal shipwright (See 72104-Structural metal and platework fabricators and fitters)
- Shipbuilding fitter (See 72104-Structural metal and platework fabricators and fitters)
- Supervisors, other products manufacturing and assembly (92024)
- Wood shipwright (See 72310-Carpenters)
- Wooden boatbuilder (See 72310-Carpenters)

Main duties

This group performs some or all of the following duties:

Assemblers and finishers

- Operate machines, use hand tools or power tools to cut, shape and fit materials to form parts and to fabricate components or products
- Load supplies into hoppers of dispensing units or manually align, feed or otherwise place materials into machines
- Screw, clip, glue, bond, weld or otherwise assemble parts and components to form final products
- Sand, trim, grind or clean products into final form using hand tools
- Clean work stations and remove scraps, dust, shavings or other by-products from machinery and surrounding areas
- May make routine changes of dies, nozzles or other machinery attachments as required

- May caulk decks and hulls using caulking gun, and install trims, rudders, seats, engine mounts and other accessories using hand tools
- May repair boats.

Inspectors

- Check manufactured items for defects and for conformance to specifications and quality standards, visually or using sample models and instruments
- Affix seals or tags to approved items and return defective products for repair or recycle
- Complete reports and record information on product inspection
- May make minor adjustments and repairs.

Employment requirements

- Secondary school education is usually required.
- Experience as a helper or labourer in the same company may be required.
- Experience as an assembler may be required for inspectors.
- On-the-job training is provided.
- Completion of college or other courses in boat building may be required.

Additional information

- There is little or no mobility among the various assemblers and inspectors in this unit group.
- Progression to supervisory positions is possible with experience.

95 Labourers in processing, manufacturing and utilities

This major group comprises labourers in processing, manufacturing and utilities. These occupations come with Training, Education, Experience and Responsibility (TEER) identified as TEER 5. Occupations classified in TEER 5, as those included in this group with a 5 as the second digit of their code, are typically accessible with short work demonstration and no formal educational requirements.

951 Labourers in processing, manufacturing and utilities

This sub-major group comprises labourers in processing, manufacturing and utilities, including labourers in mineral and metal processing; labourers in metal fabrication; labourers in chemical products processing and utilities; labourers in wood, pulp and paper processing; labourers in rubber and plastic products manufacturing; labourers in textile processing and cutting; labourers in food and beverage processing; labourers in fish and seafood processing; and other labourers in processing, manufacturing and utilities.

9510 Labourers in processing, manufacturing and utilities

This minor group comprises labourers in processing, manufacturing and utilities, including labourers in mineral and metal processing; labourers in metal fabrication; labourers in chemical products processing and utilities; labourers in wood, pulp and paper processing; labourers in rubber and plastic products manufacturing; labourers in textile processing and cutting; labourers in food and beverage processing; labourers in fish and seafood processing; and other labourers in processing, manufacturing and utilities. They are employed by mineral ore and metal processing plants, cement processing plants, clay, glass and stone processing plants and foundries; structural steel, boiler and platework fabrication plants, heavy machinery manufacturing plants, sheet metal fabrication shops, shipbuilding and other metal products manufacturing companies; petroleum and natural gas processing, pipeline and petrochemical, chemical and pharmaceutical companies; electrical, water and waste treatment utilities and services; pulp and paper, and paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies; rubber and plastic

products manufacturing companies; textile manufacturing companies; fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food, beverage and associated products processing and packaging plants; fish and seafood processing and packaging plants; companies that manufacture other products; and printing and packaging companies.

95100 Labourers in mineral and metal processing

Labourers in mineral and metal processing perform material handling, clean-up, packaging and other elemental activities related to mineral ore and metal processing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

Illustrative example(s)

- asbestos worker - mineral processing
- brick and tile kiln cleaner
- core shop labourer - foundry
- extrusion helper - primary metal processing
- fibreglass oven charger helper
- furnace loader - primary metal and mineral products processing
- glass packer
- lime kiln operator helper - mineral products processing
- metal pourer helper
- rolling mill worker - primary metal processing
- salt screening labourer
- tailings disposal labourer - primary metal processing

Exclusion(s)

- Labourers in metal fabrication (95101)
- Machine operators and related workers in mineral and metal products processing and manufacturing (9410)
- Supervisors, mineral and metal processing (92010)

Main duties

This group performs some or all of the following duties:

- Transport raw materials, finished products, scrap and recyclable materials throughout plant manually or using forklift or other powered equipment
- Feed conveyors, crushers and other equipment; open valves and start pumps; skim dross from furnaces; sort, stack, bundle and stamp materials; and perform other activities to assist process and machine operators in mineral ore and metal processing
- Clean work areas and equipment
- May assist with minor repairs and maintenance.

Employment requirements

- Completion of secondary school may be required for some positions in this group.

Additional information

- Progression to machine and process operator positions is possible with experience.

95101 Labourers in metal fabrication

Labourers in metal fabrication remove excess metal and unwanted materials from metal parts, castings and other metal products and perform other labouring activities. They are employed in structural steel, boiler and platework fabrication plants, heavy machinery manufacturing plants, sheet metal fabrication shops, shipbuilding and other metal products manufacturing companies.

Illustrative example(s)

- blacksmith helper
- buffing machine tender - metal products manufacturing
- grinder-deburrer
- labourer - metal fabrication
- metal cleaner - metal products manufacturing
- metalworking machine helper
- plater helper - metal fabrication
- shipfitter helper
- shotblaster - metal fabrication
- wheelabrator operator - metal products manufacturing

Exclusion(s)

- Labourers in mineral and metal processing (95100)

Main duties

This group performs some or all of the following duties:

- Read and interpret work orders
- Operate metal cleaning equipment such as wheelabrators, deburrers and shotblasters to remove excess welds, rust, scale and other material from surfaces of metal parts, castings and other metal products
- Polish metal products to mirror finish
- Immerse metal products in cleaning solutions
- Assist structural steel and platework fitters, sheet metal workers, metalworking machine operators or other metal workers
- Transport raw materials and finished metal products manually or using hoists or other devices
- Sort metal sheets and parts, scrap metal and other materials
- Clean work areas and equipment
- Load and unload vehicles using hand truck or dolly
- May cut, grind or chip excess metal from metal products using hand tools.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility among occupations in this unit group.
- Progression to metalworking machine operator positions is possible with experience.

95102 Labourers in chemical products processing and utilities

Labourers in chemical products processing and utilities carry out a variety of material handling, cleaning and routine general labouring activities. They are employed by petroleum and natural gas processing, pipeline and petrochemical, chemical and pharmaceutical companies, and by electrical, water and waste treatment utilities and services.

Illustrative example(s)

- coating machine feeder - chemical processing
- filter cleaner - chemical processing
- helper - chemical processing
- labourer - gas utility
- loader - chemical processing
- retort unloader
- still cleaner - chemical processing
- water intake tender
- waterworks labourer

Exclusion(s)

- Central control and process operators, petroleum, gas and chemical processing (93101)
- Chemical plant machine operators (94110)
- Supervisors, petroleum, gas and chemical processing and utilities (92011)
- Utility Maintenance Workers (74204)
- Water and waste treatment plant operators (92101)

Main duties

This group performs some or all of the following duties:

- Feed and unload production machinery and equipment
- Clean chemical processing machines and equipment and production areas
- Move, sort and pile materials and products manually and using powered equipment
- Assist other workers to operate, repair and maintain process equipment, gas distribution, water filtration and waste plant equipment
- Perform general duties such as basic construction, painting and other manual tasks.

Employment requirements

- Completion of secondary school may be required.

Additional information

- Considerable mobility is possible among jobs in this unit group.
- Progression to operator positions in the chemical or utility industry is possible with experience and appropriate qualifications.

95103 Labourers in wood, pulp and paper processing

Labourers in wood, pulp and paper processing carry out a variety of general labouring and routine wood processing activities and assist pulp mill and papermaking machine operators. They are employed by pulp and paper, and paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

Illustrative example(s)

- beater operator helper - pulp and paper
- chip bin attendant - wood processing
- conveyor cleaner - pulp and paper
- green wood chainman/woman - wood processing
- grinder feeder - pulp and paper
- labourer - pulp and paper
- labourer - wood processing
- lumber straightener - wood processing
- plywood dryer feeder
- sheeter helper - pulp and paper
- utility man/woman - pulp and paper

Exclusion(s)

- Machine operators and related workers in pulp and paper production and wood processing and manufacturing (9412)
- Supervisors, forest products processing (92014)

Main duties

This group performs some or all of the following duties:

- Feed logs onto conveyor and into hopper of grinding machine and align logs manually, using crowbar, picaroon or other tools and equipment
- Load wood chips, pulpwood, sulphur and other processing materials onto conveyors or processing tanks, remove recyclable paper and pulp from pulp and papermaking machines and transport recyclable paper and pulp to plant processing machines and equipment using forklift or other powered equipment
- Sort, pile and transport lumber, veneer sheets, panelboards and similar wood products during various stages of wood processing, manually or with powered equipment
- Remove scrap lumber and wood chips for reprocessing using forklift or other powered equipment
- Feed conveyors, saws, drying machines and other equipment to process lumber, shingles, veneer, plywood and similar wood products
- Clean wood processing machines and equipment and work areas using shovels, hoses and other tools
- Assist other wood processing workers to operate, maintain and repair various machines and equipment and carry out other wood processing activities.

Employment requirements

- Completion of secondary school is required by the pulp and paper industry and by other large employers.

Additional information

- There is considerable mobility among jobs within individual establishments.
- Progression to machine or plant operating positions is possible with experience.

95104 Labourers in rubber and plastic products manufacturing

Labourers in rubber and plastic products manufacturing assist machine operators, transport materials and perform other similar tasks. They are employed by rubber and plastic products manufacturing companies.

Illustrative example(s)

- belt builder helper
- labourer - plastic products manufacturing
- labourer - rubber products manufacturing
- machine offbearer - rubber products manufacturing
- mould cleaner - rubber products manufacturing
- moulded products stripper - rubber and plastic products manufacturing
- roll changer - rubber manufacturing
- spreader operator helper - plastic products manufacturing

Exclusion(s)

- Plastic products assemblers, finishers and inspectors (94212)
- Plastics processing machine operators (94111)
- Rubber processing machine operators and related workers (94112)
- Supervisors, plastic and rubber products manufacturing (92013)

Main duties

This group performs some or all of the following duties:

- Assist machine operators or assemblers in performing their duties
- Assist in setting up and dismantling machinery and equipment
- Clean and lubricate machinery and equipment
- Transport materials and tools to and from work areas using hand trucks or other conveyance
- Prepare raw materials for mixing process
- Monitor machines to watch for jammed materials or defective products.

Employment requirements

- Some secondary school education is usually required.

Additional information

- Progression to machine operator or assembler positions in rubber and plastic products manufacturing is possible with experience.

95105 Labourers in textile processing and cutting

Labourers in textile processing perform a variety of manual duties to assist in processing fibres into yarn or thread, or to assist in weaving, knitting, bleaching, dyeing or finishing textile fabrics or other textile products. Labourers in textile cutting cut fabric, fur, or leather to make parts for garments, linens, shoes and other articles. Labourers in textile processing and cutting are employed by clothing and textile manufacturers and other manufacturers of fabric products such as leather and fur.

Illustrative example(s)

- clothing cutter - clothing manufacturing
- doffer
- dyeing and finishing machine loader
- fabric cutter - fabric products manufacturing
- fur cutter
- glove cutter
- helper - textiles
- leather cutter
- sample cutter
- shoe cutter
- textile machine cleaner
- waste machine feeder
- yarn handler

Exclusion(s)

- Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing (9413)
- Shoe repairers and shoemakers (63220)
- Supervisors, other products manufacturing and assembly (92024)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)
- Tailors, dressmakers, furriers and milliners (64200)
- Upholsterers (63221)

Main duties

This group performs some or all of the following duties:

Labourers in textile processing

- Load and off-load machines
- Clean textile machines and work areas
- Push carts, trucks, or cans of fibres from one work area to another
- Assist machine operators and other textile workers as required.

Fabric cutters

- Place patterns on top of layers of fabric and cut fabric using electric or manual knives, cutters or computer numerically controlled (CNC) cutting devices
- Adjust cutting technique to type of fabric and style of garment
- May cut fabric samples.

Fur cutters

- Cut fur skins in diagonal strips to specified length and shape of pelt using furrier's knives and cutters
- Number pelts to indicate their location on pattern
- May sort or match skins, and may prepare fur samples.

Leather cutters

- Select leather and cutting dies for leather goods and shoe parts according to specifications
- Position leather on cutting bed of machine, maximizing usage according to skin grain, skin flaws and skin stretch
- Operate clicker or punch press to stretch leather
- Operate machine to strip and cut leather or cut single leather skins by hand to make leather products
- May cut leather samples.

Employment requirements

- Some secondary school education may be required.
- Experience as a fabric, fur or leather cutter is required for fabric, fur or leather sample cutters.
- On-the-job training is provided for some occupations in this unit group.

Additional information

- Progression to machine operator or supervisory positions is possible with experience.
- There is little mobility among the different kinds of cutters in this unit group.

95106 Labourers in food and beverage processing

Labourers in food and beverage processing perform material handling, clean-up, packaging and other elemental activities related to food and beverage processing. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food and beverage processing and packaging plants.

Illustrative example(s)

- bottle-washing machine tender - food and beverage processing
- brewery labourer
- candy packer
- dairy helper - food and beverage processing
- food processing labourer
- frozen food packer
- meat packager
- nut sorter - food and beverage processing
- production helper - food and beverage processing
- tobacco processing labourer

Exclusion(s)

- Fish and seafood plant workers (94142)
- Labourers in fish and seafood processing (95107)

- Process control and machine operators, food and beverage processing (94140)
- Supervisors, food and beverage processing (92012)
- Testers and graders, food and beverage processing (94143)

Main duties

This group performs some or all of the following duties:

- Transport raw materials, finished products and packaging materials throughout plant and warehouse manually, or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines or mobile tank trucks
- Feed and unload food and beverage processing machines
- Feed flattened boxes into forming machines to construct containers
- Remove filled containers from conveyors and manually pack goods into bags, boxes or other containers
- Clean work areas and equipment
- Check products and packaging for basic quality defects
- Assist process control and machine operators in performing their duties.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility among occupations in this unit group.
- Labourers in food and beverage processing may progress to machine or process operating positions with experience.

95107 Labourers in fish and seafood processing

Labourers in fish and seafood processing perform clean-up, packaging, material handling and other elemental activities related to fish and seafood processing. They are employed in fish and seafood processing and packaging plants.

Illustrative example(s)

- cannery labourer
- fish briner - fish processing
- fish plant labourer
- fish salter - fish processing
- fish weigher
- shellfish labourer
- shellfish packer - fish processing

Exclusion(s)

- Fish and seafood plant workers (94142)
- Supervisors, food and beverage processing (92012)

Main duties

This group performs some or all of the following duties:

- Unload fish and shellfish from fishing vessels and transport them by hand or forklift truck to work area in fish processing plant
- Immerse fresh fish fillets in brine solution to condition them for wrapping or freezing
- Weigh fish or shellfish, record weight and pack fish in ice
- Sort fish according to species, weight and destination
- Clean work areas and equipment
- Transport supplies and packaging materials throughout plant and storage area manually or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines.

Employment requirements

- Some secondary school education may be required.

Additional information

- Progression to other occupations in the fish processing industry is possible with experience.

95109 Other labourers in processing, manufacturing and utilities

Other labourers in processing, manufacturing and utilities perform material handling, clean-up, packaging and other elemental activities in processing, manufacturing and utilities. They are employed by companies that manufacture products such as clothing, footwear, furniture and electrical and electronic products and by printing and packaging companies.

Illustrative example(s)

- bindery helper
- box packer
- carton marker
- chair sander
- clothing plant labourer
- electrical products labourer
- film cutter - film processing
- furniture packer
- garment folder
- lens blocker
- machine packager
- seed packager
- shoe manufacturing labourer
- sorter - recyclable materials
- upholsterer helper

Exclusion(s)

- Supervisors, electronics and electrical products manufacturing (92021)
- Supervisors, furniture and fixtures manufacturing (92022)
- Supervisors, other products manufacturing and assembly (92024)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (92015)

Main duties

This group performs some or all of the following duties:

- Transport raw materials, finished products and equipment throughout plant manually or using powered equipment
- Check and weigh materials and products
- Sort, pack, crate and package materials and products
- Assist machine operators, assemblers and other workers
- Clean work areas and equipment
- Perform other labouring and elemental activities.

Employment requirements

- Some secondary school education may be required.

Additional information

- There is some mobility among occupations in this unit group.
- Progression to machine operating positions is possible with experience.

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21210 actuarial assistant	13111 administrative assistant - legal
14201 actuarial clerk	13112 administrative assistant - medical
20011 actuarial department manager	13110 administrative assistant - office
21210 actuary	13110 administrative assistant
32209 acupressure therapist	14100 administrative clerk - Canadian Armed Forces
33109 acupuncture assistant	14100 administrative clerk
33109 acupuncture attendant	12010 administrative clerks supervisor
32200 acupuncturist	14301 administrative contract clerk
31300 acute care coordinator - nursing	13100 administrative coordinator
31302 acute care nurse practitioner	31121 administrative dietitian
31100 acute care specialist	41100 administrative judge
14112 ad compositor - typesetting	41101 administrative lawyer
51111 ad writer	50010 administrative librarian
41300 addiction social worker	10019 administrative manager
41301 addictions counsellor	31121 administrative nutritionist
42201 addictions worker - compulsive gambling	13100 administrative officer
42201 addictions worker	13100 administrative planning officer
73209 adding machine repairer	10019 administrative records department manager
14100 address forms clerk	10019 administrative records manager
74100 addressing machine operator - mail and parcel sorting	13110 administrative secretary
74100 address-labelling machine tender	10019 administrative services chief
74100 address-plate inserter	13100 administrative services coordinator
94219 adhesive bandage machine tender	10019 administrative services director
21320 adhesives engineer	10019 administrative services manager
12104 adjudication officer - employment insurance	13100 administrative services officer
43203 adjudication officer - immigration	13100 administrative support officer
12104 adjudicator - employment insurance	10019 administrative support services manager
12201 adjuster - insurance	13100 administrative technician
12201 adjuster trainee - insurance	40010 administrative tribunal judge - government services
12201 adjuster	

50011 administrator of studio and broadcasting station	12102 advertising buyer
40042 admiral	11202 advertising campaign organizer
10019 admissions director - health care	14301 advertising clerk
40020 admissions director - post-secondary education	12012 advertising clerks supervisor
13100 admissions officer - post-secondary educational institution	14202 advertising collector
14101 admitting clerk	11202 advertising consultant
41403 adoption project officer	51111 advertising copywriter
31302 adult care nurse practitioner	52120 advertising designer
32122 adult echocardiographer	10022 advertising director
41405 adult education consultant	51110 advertising editor
40020 adult education dean	52120 advertising illustrator chief
41405 adult education program officer	52120 advertising illustrator
40012 adult education services director	75201 advertising item delivery person
41220 adult education teacher - secondary school	52120 advertising layout designer
32102 advanced care paramedic	10022 advertising manager
32102 advanced emergency medical assistant	14301 advertising space measurer
32102 advanced life support attendant	64101 advertising space representative - print media
32102 advanced life support coordinator	11202 advertising specialist
32102 advanced life support paramedic	64101 advertising time sales representative
31302 advanced nurse practitioner	51111 advertising writer
31302 advanced practice nurse	41403 adviser for the integration of persons with disabilities
32120 advanced registered medical laboratory technologist	41101 advisory counsel
64320 adventure travel site interpreter	94124 adzing and boring machine operator
75201 advertisement delivery person	53121 aerial acrobat - entertainment
11202 advertising account executive	72600 aerial crop duster
11202 advertising account manager	72600 aerial crop dusting service contractor
10022 advertising administrator	22214 aerial photograph analyst
64101 advertising agency broker	22214 aerial photograph interpreter
10022 advertising agency manager	22214 aerial photograph technician
00012 advertising agency president	53110 aerial photographer
41402 advertising analyst	72600 aerial sprayer
11202 advertising and promotions coordinator	75119 aerial spraying assistant
11202 advertising and promotions specialist	75119 aerial spraying lineman/woman
52120 advertising art director	72600 aerial survey flight supervisor
52120 advertising art supervisor	72600 aerial survey pilot
41210 advertising art teacher	22214 aerial survey technician
52120 advertising artist	22214 aerial survey technologist
14301 advertising assistant	73400 aerial tram operator
94219 advertising button assembler	54100 aerobics instructor
	12013 aerodrome supervisor

21100 aerodynamicist	72421 after-sales service technician - electrical appliances
21390 aerodynamics engineer	10022 agency marketing department manager
72404 aero-engine mechanic	64312 agent ticket and information - airline
72404 aero-engine technician	94130 aging machine operator - textile manufacturing
22214 aerological observer	94130 aging machine tender - textile manufacturing
22214 aerological technician	21112 agricultural advisor
32129 aeromedical instructor	41400 agricultural association analyst
32129 aeromedical technician	21101 agricultural chemist
32129 aeromedicine technician	20011 agricultural chemistry branch director
22212 aeronautical draftsman	41210 agricultural college teacher
21390 aeronautical engineer	21112 agricultural consultant
21390 aeronautical project engineer	41401 agricultural economist
22301 aeronautical technologist	21399 agricultural engineer
21100 aerophysicist	22300 agricultural engineering technician
72601 aerospace control operator - Canadian Armed Forces	62100 agricultural equipment and supplies technical salesperson
21390 aerospace engineer - design and development	94204 agricultural equipment assembler
21390 aerospace engineer - flight operations	92023 agricultural equipment assembly foreman/woman
21390 aerospace engineer - flight support	94204 agricultural equipment assembly inspector
21390 aerospace engineer - flight test	94204 agricultural equipment bench assembler
21390 aerospace engineer - mass properties	94204 agricultural equipment inspector
21390 aerospace engineer - material stress	72401 agricultural equipment technician
21390 aerospace engineer - materials and processes	21112 agricultural extension supervisor
21390 aerospace engineer - propulsion systems	94204 agricultural implement assembly inspector
21390 aerospace engineer - systems analysis	94204 agricultural implement bench assembler
21390 aerospace engineer - systems	94204 agricultural implement gearcase assembler
21390 aerospace engineer - weight and balance	94204 agricultural implements assembly inspector
21390 aerospace engineer	41400 agricultural issues lobbyist
20010 aerospace engineering manager	21112 agricultural livestock specialist
21390 aerospace engineering officer - Canadian Armed Forces	72405 agricultural machinery builder
22301 aerospace engineering technician	72405 agricultural machinery fitter
22301 aerospace engineering technologist	21103 agricultural meteorologist
21390 aerospace reliability specialist	40011 agricultural policy director - government services
21100 aerospace research scientist	22111 agricultural products inspection supervisor
21390 aerospace structural engineer	22111 agricultural products inspector
21390 aerospace systems engineer	40011 agricultural products market development director - government services
21390 aerospace test engineer	40011 agricultural products market director
11202 affiliated stations relations administrator	40011 agricultural programs manager - government services
41403 affirmative action advisor	
72410 after sales service technician - motor vehicles	

21112 agricultural representative	72020 air conditioning and refrigeration foreman/woman
20011 agricultural representatives director	72020 air conditioning and refrigeration mechanic foreman/woman
20011 agricultural representatives regional manager	72402 air conditioning and refrigeration mechanic
41210 agricultural school teacher	72020 air conditioning contractor
22110 agricultural sciences technician	75119 air conditioning mechanic helper
21110 agricultural scientist	72020 air conditioning mechanics foreman/woman
21112 agricultural soil and crop specialist	92100 air conditioning system operator
21112 agricultural specialist	22212 air conditioning systems draftsman
22110 agricultural technician	94202 air conditioning unit tester
22110 agricultural technologist	64410 air courier guard
41402 agriculture and food sector development consultant	65311 air duct cleaner
41402 agriculture and food sector marketing consultant	65311 air duct cleaning technician
82030 agriculture foreman/woman	94219 air filter assembler
41200 agriculture professor - university	70020 air freight manager
21112 agriculturist	75110 air gun operator
41402 agri-food sector marketing consultant	75110 air hammer operator - construction
21101 agrochemist	94105 air hammer operator - metal forging
21110 agrogeologist	94141 air knife meat cutter - meat packing plant
21112 agrologist	75110 air lock tender
22110 agrology technician	72600 air navigator
22110 agrology technologist	72600 air patrol pilot
21112 agronomist	72600 air pilot and flight engineer supervisor
21399 agronomy engineer	72600 air pilot
22110 agronomy technician	72600 air pilots and navigators supervisor
22110 agronomy technologist	22300 air pollution field technician
21399 agroprocessing engineer	21103 air quality meteorologist
93200 aileron fitter - aircraft assembly	75110 air tool operator
94112 air brake hose builder - rubber products manufacturing	75110 air track drill operator helper
72403 air brake inspector - railway car	72601 air traffic control assistant
75110 air breaker operator	72601 air traffic control chief
22231 air carrier maintenance inspector	72601 air traffic control officer
40042 air combat systems officer	72601 air traffic controller (ATC) - Canadian Armed Forces
92100 air compressor operator	72601 air traffic controller (ATC)
73209 air compressor repairer	72601 air traffic coordinator
94202 air conditioner coil assembler	22231 air transport inspector
72421 air conditioner repairer - window unit	12013 air transport operations supervisor
72402 air conditioning and heating mechanic	12013 air transport operations support supervisor
72020 air conditioning and refrigeration contractor	14405 air transport schedule analyst
	73200 air treatment installer

42102 air weapons systems technician	22313 aircraft electrician
94112 airbag and tube curer - rubber products manufacturing	22313 aircraft electronic components technician
94112 airbag builder - rubber products manufacturing	22313 aircraft electronic equipment inspector and tester
95104 airbag extractor - rubber products manufacturing	22313 aircraft electronic equipment installer
22214 airborne data acquisition specialist	22313 aircraft electronic system mechanic
22310 airborne electronic sensor operator - Canadian Armed Forces	22313 aircraft electronics inspector
43204 airborne electronic sensor operator	72404 aircraft engine accessories overhaul mechanic
22101 airborne geophysical equipment operator	72020 aircraft engine assemblers foreman/woman
52111 airbrush artist	72405 aircraft engine assembly fitter
94213 airbrush painter	72020 aircraft engine assembly foreman/woman
94204 air-cooled engine assembler	72405 aircraft engine fitter
72429 air-cooled engine mechanic	72020 aircraft engine fitters foreman/woman
72404 aircraft accessories mechanic	72404 aircraft engine inspector
72404 aircraft accessories overhaul mechanic	72404 aircraft engine mechanic
72404 aircraft accessories overhaul technician	72404 aircraft engine mechanical systems overhaul inspector
72404 aircraft accessories repairer	72404 aircraft engine mechanical systems technician
72404 aircraft accessories repairman/woman	72020 aircraft engine overhaul foreman/woman
22313 aircraft and missile electrotechnician - avionics	72404 aircraft engine overhaul inspector
93200 aircraft assembler	72404 aircraft engine overhaul mechanic
92023 aircraft assembly foreman/woman	94106 aircraft engine parts machine tool set-up operator
92023 aircraft assembly inspection foreman/woman	72100 aircraft engine parts machinist
93200 aircraft assembly inspector	72404 aircraft engine repair and overhaul mechanic
93200 aircraft assembly rigger	72020 aircraft engine repair foreman/woman
92023 aircraft assembly supervisor	72404 aircraft engine technician
22313 aircraft avionics technician	72404 aircraft engine tester
93200 aircraft bench assembler	93200 aircraft fabrication inspector
72404 aircraft body repairer	93200 aircraft final assembly inspector
95101 aircraft bumper operator	93200 aircraft fitter-assembler - aircraft assembly
74202 aircraft cleaner	64311 aircraft flight attendant
72404 aircraft composite and sheet metal repairer	63221 aircraft furnishing technician
93200 aircraft control assembler	92023 aircraft fuselage assembly foreman/woman
63221 aircraft custom upholsterer	72404 aircraft gas turbine engine technician
21390 aircraft design engineer	74202 aircraft groomer
22313 aircraft electrical equipment inspector and tester	94219 aircraft heat shield maker
22313 aircraft electrical inspector	92023 aircraft hydraulic equipment installation foreman/woman
22313 aircraft electrical mechanic	72404 aircraft hydraulics inspector
22313 aircraft electrical system mechanic	72404 aircraft hydraulics mechanic
22313 aircraft electrical technician	72020 aircraft hydraulics repair shop foreman/woman

72404 aircraft hydraulics shop technician	72020 aircraft mechanical systems mechanics foreman/woman
72404 aircraft hydraulics technician	72404 aircraft mechanical systems modification mechanic
72404 aircraft hydraulics tester	72404 aircraft mechanical systems preflight mechanic
72404 aircraft inspector	72404 aircraft mechanical systems repair and overhaul inspector
22313 aircraft instrument inspector	72404 aircraft mechanical systems repair inspector
75119 aircraft instrument mechanic helper	72404 aircraft mechanical systems repair shop inspector
22313 aircraft instrument mechanic	72404 aircraft mechanical systems technician
22313 aircraft instrument technician	72020 aircraft mechanics and inspectors foreman/woman - mechanical systems
52121 aircraft interior designer	72020 aircraft mechanics and inspectors foreman/woman
72101 aircraft jig and template maker	72020 aircraft mechanics and repairers foreman/woman - mechanical systems
72101 aircraft jig and tool maker	72020 aircraft mechanics foreman/woman
72102 aircraft layout man/woman sheet metal	72999 aircraft mock-up maker
72100 aircraft machinist	72999 aircraft model maker
72020 aircraft maintenance chief	22230 aircraft non-destructive inspection technician
22313 aircraft maintenance engineer (AME) - avionics	92023 aircraft painter foreman/woman
72404 aircraft maintenance engineer (AME) (except avionics)	94213 aircraft painter
72020 aircraft maintenance engineer (AME) chief	94212 aircraft parts assembly repairer - plastic products manufacturing
72020 aircraft maintenance engineers (AME) supervisor	94106 aircraft parts etcher
72404 aircraft maintenance mechanic apprentice	92023 aircraft parts etching foreman/woman
72020 aircraft maintenance mechanics foreman/woman - aircraft mechanical systems	93200 aircraft parts fitter - aircraft assembly
72020 aircraft maintenance service supervisor	95109 aircraft parts packager
72020 aircraft maintenance supervisor - aircraft mechanical systems	95109 aircraft parts wrapper
72404 aircraft maintenance technician	63221 aircraft patternmaker and upholsterer
72404 aircraft mechanic experimental	72999 aircraft patternmaker
75119 aircraft mechanic helper	94212 aircraft plastic panelling assembler
72404 aircraft mechanic learner	94212 aircraft plastic parts trimmer-assembler
72404 aircraft mechanic	72404 aircraft plumbing and hydraulics mechanic
72404 aircraft mechanical and fuel systems overhaul and repair mechanic	93200 aircraft power plant assembler-installer
72404 aircraft mechanical systems flight tests inspector	72404 aircraft power plant mechanic
72404 aircraft mechanical systems inspector	72404 aircraft propeller inspector
72404 aircraft mechanical systems junior mechanic	72020 aircraft propeller repair foreman/woman
72020 aircraft mechanical systems maintenance service supervisor	72404 aircraft propeller systems technician
72020 aircraft mechanical systems maintenance supervisor	72404 aircraft propulsion technician
72404 aircraft mechanical systems maintenance technician	72404 aircraft reciprocating engine technician
72404 aircraft mechanical systems mechanic	14100 aircraft records clerk

74202 aircraft refueler	72601 airline dispatcher
72404 aircraft repair and overhaul inspector	70020 airline division manager
72404 aircraft repair shop inspector	70020 airline division superintendent
53100 aircraft restoration technician - museum	70020 airline express manager
93200 aircraft rigger - aircraft assembly	70020 airline fleet operations manager
93200 aircraft rigging and controls mechanic - aircraft assembly	70020 airline flight schedule design manager
92023 aircraft rigging foreman/woman	65201 airline food assembler
72404 aircraft rotary mechanical systems technician	12013 airline load control supervisor
72404 aircraft safety systems mechanic	64312 airline load planner
62100 aircraft sales representative	70020 airline manager
93200 aircraft sealer - aircraft assembly	64312 airline passenger agent
72020 aircraft servicing foreman/woman	72600 airline pilot instructor
72020 aircraft servicing supervisor	72600 airline pilot
72404 aircraft sheet metal technician	64311 airline purser
72404 aircraft skin repairer	14404 airline radio operator
72404 aircraft structural repair technician	64312 airline reservation agent
72404 aircraft structural technician	64312 airline sales and service agent
93200 aircraft structure and surface assembler	62022 airline sales and service agents supervisor
93200 aircraft structure assembler	70020 airline superintendent
72404 aircraft structures technician - Canadian Armed Forces	72600 airline test pilot
72404 aircraft systems inspector	64312 airline ticket agent
62100 aircraft technical sales specialist	72600 airplane pilot
93200 aircraft tester - aircraft assembly	72601 airport air traffic controller
95104 aircraft tire tube balancer	65310 airport cleaner
94112 aircraft tire tube builder - rubber products manufacturing	21300 airport engineer
74202 aircraft towing equipment operator	73209 airport equipment maintenance repairer
63221 aircraft upholsterer	40041 airport fire department chief
72106 aircraft welder	42101 airport firefighter
93200 aircraft wing assembler	65312 airport janitor
93200 airframe assembler - aircraft assembly	75200 airport limousine driver
93200 airframe assembler	73201 airport maintenance worker
93200 airframe fitter - aircraft assembly	70012 airport manager
72404 airframe mechanic	74202 airport ramp attendant
93200 airframe subassembler	72021 airport road paving foreman/woman
93200 airframe unit assembler	72021 airport runways road foreman/woman
64312 airline baggage agent	64410 airport security guard
64312 airline cargo agent	70012 airport services manager
64312 airline customer service representative	70012 airport terminal manager
41210 airline customer-service instructor	64322 airship pilot
	73402 air-track drill operator - construction
	22231 airworthiness inspector

64410 alarm investigator	94100 alumina clarifier operator
14404 alarm system dispatcher	92010 alumina plant foreman/woman
14404 alarm system operator	95100 alumina recovery helper
64101 alarm system sales representative	94100 alumina recovery operator
22311 alarm system technician	94201 aluminizing equipment operator - electronic equipment manufacturing
22311 alarm systems installer	94219 aluminum awning assembler
41301 alcohol addiction counsellor	73200 aluminum awning installer
64101 alcoholic beverage sales representative - wholesale	94219 aluminum awning maker
00010 alderman/woman	94219 aluminum boat assembler
41220 algebra teacher - secondary school	94219 aluminum boat leak tester
21110 algologist	94100 aluminum classifier
94201 aligner - electronic equipment manufacturing	94219 aluminum door and window assembler
74200 aligner-tamper operator - railway	73200 aluminum door and window installer
72410 alignment and brakes technician	94219 aluminum door assembler
94151 alignment examiner - printing	73200 aluminum door installer
93101 alkylation chief operator	94100 aluminum electrolytic tank reconditioner
93101 alkylation operator	94100 aluminum electrolytic tank tender
93101 alkylation tower tender	94100 aluminum oxide controller
31100 allergist	94100 aluminum pourer - primary metal processing
31100 allergologist	94100 aluminum powder maker
93100 alloy control operator - zinc casting	64101 aluminum products sales representative - wholesale
95100 alloy mixer - primary metal processing	64100 aluminum products salesperson - retail
95100 alloy processor - primary metal processing	94105 aluminum sheet cutter - ductwork
72423 all-terrain vehicle repairer	94105 aluminum sheet cutter - metal fabrication
94204 all-terrain vehicles inspector	95100 aluminum sheet separator
64322 alpine guide	94105 aluminum sheet trimmer - ductwork
64200 alterations dressmaker	73200 aluminum siding installer
64200 alterations seamstress	64100 aluminum siding salesperson - retail
92015 alterations supervisor - clothing manufacturing	94100 aluminum slurry pump tender
62100 alternate heating energy consultant	94100 aluminum stretcher-leveller operator
94203 alternating current (AC) and direct current (DC) armature winder	94219 aluminum window assembler
94203 alternating current (AC) and direct current (DC) motor inspector and tester	73200 aluminum window installer
94203 alternating current (AC) and direct current (DC) motors fitter-assembler	94100 aluminum-briquetting equipment operator
94203 alternating current (AC) and direct current (DC) motors inspector	94100 aluminum-casting machine operator - primary metal processing
94203 alternator tester	93101 alum-liquor plant operator
51122 alto	00013 alumni association executive director
95100 alumina clarifier helper	94100 amalgamation process tender
	53200 amateur athlete
	53201 amateur athletics team coach

50012 amateur sport manager	21310 analog and mixed-signal design engineer
53201 amateur sports team coach	21210 analysis supervisor - statistics
53201 amateur track and field team coach	41402 analyst - market research
00011 ambassador	11100 analyst-accountant
32102 ambulance attendant trainee	21101 analytical biochemist
32102 ambulance attendant	21101 analytical chemist
32102 ambulance attendants supervisor	22100 analytical chemistry technician
14404 ambulance dispatcher	22100 analytical chemistry technologist
32102 ambulance driver	31100 anatomical pathologist
32102 ambulance driver-attendant	32120 anatomical pathology technologist
32102 ambulance services field supervisor	21110 anatomist
32102 ambulance services supervisor	41200 anatomy professor - university
32102 ambulance services unit chief	74200 anchor-applicator operator - railway
32102 ambulance technician	51113 anchorman/woman
31301 ambulatory care nurse	41405 andragogy specialist
51114 American Sign Language (ASL) interpreter	32103 anesthesia assistant
93101 ammonia plant operator	31302 anesthesia nurse practitioner
94219 ammunition assembler	32103 anesthesia technologist
94101 ammunition caster - foundry	31100 anesthesiologist - Canadian Armed Forces
12013 ammunition foreman/woman	31100 anesthesiologist
94219 ammunition inspector	33102 anesthetic attendant - hospital
94219 ammunition loading inspector	31100 anesthetist
94219 ammunition maker	94105 angle shear operator - metal fabrication
94219 ammunition manufacturing inspector	53122 animal art painter
22231 ammunition safety inspector	53122 animal art sculptor
94219 ammunition salvage inspector	65220 animal attendant
14401 ammunition storekeeper	65220 animal attendants supervisor
42102 ammunition technician	31103 animal behavior veterinarian
94219 ammunition worker	80020 animal breeder
72400 ammunition-assembling machine adjuster	32104 animal care technician
72400 ammunition-loading machine adjuster	32104 animal care technologist
31112 amplification audiologist	65220 animal care worker (except farm)
22311 amplifier repairer	43202 animal control inspector
95109 ampoule filler	43202 animal control officer
95109 ampoule inspector - pharmaceuticals and toiletries manufacturing	43202 animal control supervisor
65211 amusement attraction operator	73202 animal control trapper
65211 amusement concession operator	21110 animal ecologist
65211 amusement park attendant	94141 animal eviscerator - meat packing plant
65211 amusement ride attendant	82030 animal farm foreman/woman
65211 amusement ride operator	80020 animal farmer
	95106 animal feed sack filler

21110 animal geneticist	75201 announcement deliverer
65220 animal groomer (except horses)	52114 announcer
65220 animal health care assistant	11103 annuity representative - investments
22111 animal health inspector	94104 anode adjuster - primary metal processing
32104 animal health technician - agriculture	94100 anode caster - primary metal processing
32104 animal health technician	94100 anode caster
32104 animal health technologist supervisor	94100 anode operator
32104 animal health technologist	94100 anode paste plant operator
82030 animal husbandry foreman/woman	94100 anode press operator
21110 animal nutritionist	94213 anodizer
32104 animal operating room attendant	92010 anodizing foreman/woman - primary metal processing
31103 animal pathologist	14101 answering service operator
22111 animal primary products inspector	94219 antenna assembler
94141 animal skinner - meat packing plant	21310 antenna engineer
94141 animal sticker - meat packing plant	73200 antenna installer - electronic equipment
94141 animal stunner	94201 antenna-tuner inspector - electronic equipment manufacturing
21110 animal taxonomist	41409 anthropologist
65220 animal trainer (except horses or marine mammals)	41200 anthropology professor - university
52119 animal wrangler - motion pictures, broadcasting and performing arts	93101 antibiotics fermenter
52120 animated cartoon artist - visual arts	95109 antichecking steel bander
52120 animated cartoon artist	40040 anti-gambling section inspector - police
52120 animated cartoon colourist	72411 antique car body restorer
52111 animated cartoon inker	60020 antique dealer
52111 animated cartoon painter	72411 antique vehicle body restorer
52111 animated cartoon technician	94210 antiquer - furniture finishing
52111 animated cartoons inker and painter	94219 anvil-seating press tender
52120 animation artist	72999 anvilsmith
52111 animation camera operator	65312 apartment building caretaker
52111 animation inker	65312 apartment building concierge
52120 animation layout designer	73201 apartment building maintenance worker
52111 animation painter	73201 apartment maintenance man/woman
21232 animation programmer	13101 apartment rental agent
52120 animator - animated films	80020 apiarist
42204 animator - spiritual guidance	84120 apiary technician
94102 annealer - glass products manufacturing	85100 apiary worker
94100 annealer - primary metal processing	21110 apiculture entomologist
95100 annealer helper - primary metal processing	80020 apiculturist
92010 annealing foreman/woman - primary metal processing	41210 apparel design teacher
92010 annealing foreman/woman	12104 appeal judge - employment insurance

12104 appeal officer - taxation	21300 appraisal engineer
12104 appeal officer	21111 appraisal forester
41100 appellate court judge	12203 appraisal technician
80020 apple grower	12203 appraiser (except customs)
82030 apple orchard foreman/woman	72404 apprentice aircraft maintenance engineer (AME)
85101 apple picker	72404 apprentice aircraft mechanical systems mechanic
80020 apple producer	72421 apprentice appliance service technician
94140 applesauce processor operator	72100 apprentice automotive machinist
62101 appliance buyer	22313 apprentice avionics technician
72020 appliance repair contractor	63202 apprentice baker - retail
72020 appliance repair shop foreman/woman	72310 apprentice boat carpenter
72020 appliance repair shop supervisor	72320 apprentice bricklayer
72421 appliance repairer apprentice	72320 apprentice brickmason
64100 appliance salesperson - retail	63201 apprentice butcher - retail or wholesale
72421 appliance service technician apprentice	72403 apprentice carman/woman - railway
72421 appliance service technician	72310 apprentice carpenter
72421 appliance servicer	72310 apprentice carpenter-joiner
41210 appliance servicing teacher - vocational institute	73100 apprentice cement finisher
60020 appliance store manager	72205 apprentice communication electrician - switching
21231 application architect	72200 apprentice construction electrician
14301 application clerk	63200 apprentice cook
20012 application development director - information technology (IT)	32110 apprentice dental mechanic
21232 application programmer	32112 apprentice dental prosthesis maker
14201 application reviewer - insurance	32112 apprentice dental technician
21220 application security engineer	65320 apprentice dry cleaner
21311 application specific integrated circuit (ASIC) design engineer	73102 apprentice drywall applicator
22221 application support analyst	72205 apprentice electrician - telecommunications equipment
22222 application tester	72200 apprentice electrician
22222 application testing technician	72406 apprentice elevator mechanic
21222 applications analyst - computer systems	62201 apprentice embalmer
41409 applied anthropologist	72401 apprentice farm equipment mechanic
41210 applied arts teacher - college level	72401 apprentice farm machinery mechanic
41409 applied geographer	72104 apprentice fitter - shipbuilding
41409 applied linguist	73113 apprentice floor covering installer
21210 applied mathematician	72302 apprentice gas fitter
21103 applied meteorologist	73111 apprentice glazier
21210 applied statistician	73400 apprentice heavy equipment operator
14101 appointment clerk	72201 apprentice industrial electrician
13110 appointment secretary	

22312 apprentice industrial instrument mechanic	73401 apprentice press operator - printing
72400 apprentice industrial mechanic	73401 apprentice press operator
73112 apprentice industrial painter and decorator	73401 apprentice pressman/woman - printing
22312 apprentice instrument mechanic	73401 apprentice pressman/woman
72321 apprentice insulator	73401 apprentice printing press operator
72105 apprentice ironworker	72423 apprentice recreation vehicle mechanic
62202 apprentice jeweller	72402 apprentice refrigeration and air conditioning mechanic
72203 apprentice line maintainer - electric power systems	73110 apprentice roofer
72203 apprentice lineman/woman - electric power systems	72999 apprentice saw repairer
72204 apprentice lineman/woman - telecommunications	65101 apprentice service station attendant
72100 apprentice machinist	72102 apprentice sheet metal worker
72201 apprentice marine electrician	73110 apprentice shingle roofer
72603 apprentice marine engineer officer	72104 apprentice shipfitter
72423 apprentice marine repair technician	72104 apprentice ship's plater
72320 apprentice mason	52111 apprentice sign painter
72602 apprentice master - minor waters	72429 apprentice small engine mechanic
72104 apprentice metal fabricator	72301 apprentice sprinkler system fitter
72104 apprentice metal shipwright	92100 apprentice stationary engineer
72105 apprentice metal structure erector	72301 apprentice steamfitter
72400 apprentice millwright	72104 apprentice steel fabricator
83100 apprentice miner	72104 apprentice structural metal and platework fabricator
72500 apprentice mobile crane operator	72104 apprentice structural steel and platework fitter
72410 apprentice motor vehicle mechanic	72104 apprentice structural steel fabricator
94101 apprentice moulder - foundry	72205 apprentice telephone switchman/woman
32129 apprentice ocularist	73101 apprentice tilesetter
32100 apprentice optician	72102 apprentice tinsmith
72423 apprentice outboard motor mechanic	72101 apprentice tool and die maker
72411 apprentice painter - motor vehicle repair	72501 apprentice water well driller
73112 apprentice painter and decorator	72106 apprentice welder
72301 apprentice pipefitter	40010 apprenticeship training director - government services
72301 apprentice pipefitter-steamfitter	40010 apprenticeship training service director - government services
73102 apprentice plasterer	80022 aquaculture director
72300 apprentice plumber	80022 aquaculture manager
92100 apprentice power dispatcher - electrical power systems	80022 aquaculture operator
92100 apprentice power dispatcher	85102 aquaculture support worker
92100 apprentice power engineer	22110 aquaculture technician
72203 apprentice power line repairer	85102 aquaculture worker
72202 apprentice power system electrician	65220 aquarist

53100 aquarium interpreter	21300 architectural engineer
21110 aquatic biologist	20011 architectural manager
22110 aquatic biology technician	21200 architectural project manager
41406 aquatic program coordinator	20011 architectural service manager
11103 arbitrager	21200 architectural standards specialist
94205 arbor press tender - electrical equipment manufacturing	22210 architectural technician
22114 arboriculturist	22210 architectural technologist
22114 arborist	41210 architectural technology instructor
94105 arc cutter - metal fabrication	52100 archival assistant
72106 arc welder - pipeline	50010 archival document manager
72106 arc welder	52100 archival management technician
94111 arch cushion press operator - plastic manufacturing	52100 archive assistant
41409 archaeological consultant	52100 archive attendant
41409 archaeological field worker	52100 archive technician
53100 archaeological technician	50010 archives chief
41409 archaeologist	14301 archives clerk
51101 archaeology curator	50010 archives director
51101 archaeology museum curator	50010 archives manager
41200 archaeology professor - university	51102 archivist
41302 archbishop	92020 area coordinator - motor vehicle assembly
94112 arch-cushion-skiving machine operator	92020 area coordinator - motor vehicle manufacturing
41302 archdeacon	41402 area development officer - government
53200 archer	92100 area dispatch chief operator - electrical power systems
73209 archery bow finisher - sporting goods manufacturing	92100 area dispatch chief operator
73209 archery bow finisher	92100 area load centre dispatcher
94219 archery bow limb aligner	10021 area manager - banking, credit and investment
94219 archery bow maker	70021 area manager - postal service
73209 archery bow repairer - sporting goods manufacturing	60020 area manager - retail store chain
73209 archery bow repairer	60010 area sales manager
94219 archery bow string maker	40021 area superintendent - schools
21200 architect	65211 arena ice patroller
22300 architectural and engineering technologists and technicians supervisor	70012 arena manager
22210 architectural assistant	94203 armature assembler - industrial electrical equipment
51101 architectural conservator	94202 armature bander
22210 architectural design technician	94203 armature coil former - industrial electrical equipment
22210 architectural design technologist	94203 armature coil winder - industrial electric equipment
22212 architectural draftsman	94203 armature inspector - industrial electrical equipment

94203 armature insulator - industrial electrical equipment	53122 art instructor (except primary, secondary, post-secondary education)
72422 armature repairman/woman	53122 art instructor
94205 armature tester	52120 art layout designer
94203 armature winder - industrial electrical equipment	51100 art librarian
72422 armature winder repairer	51101 art object curator
64410 armed security guard	51101 art objects conservator
44200 armour defence gunner	53100 art objects preparator
40042 armour officer	53100 art restoration technician
64410 armoured car driver	64100 art sales consultant - retail
64410 armoured car guard	64100 art salesperson
44200 armoured soldier - Canadian Army	60040 art school manager
72205 army communication and information systems specialist	41221 art teacher - elementary school
32209 aromatherapist	41220 art teacher - secondary school
51121 arranger	53122 art teacher (except primary, secondary and post-secondary education)
94219 arrow assembler	41301 art therapist
94219 arrow point assembler	41301 art therapists' supervisor
94100 arsenic recovery operator	41301 art therapy consultant
55109 art and photography model	41301 art therapy teacher (except education)
41405 art coordinator - education	52111 art work assembler
51113 art critic	41101 articling law student
60020 art dealer	73301 articulated bus operator
14300 art department library clerk	51101 artifact conservator
51120 art director - graphic design	32129 artificial eye maker
51120 art director - motion pictures, broadcasting and performing arts	53124 artificial flower presser
51110 art editor	65211 artificial ice maker - rink
11202 art educator - museum	82030 artificial insemination service contractor
50010 art gallery administrator	84120 artificial inseminator
50010 art gallery assistant director	21211 artificial intelligence (AI) analyst
50010 art gallery chief curator	21211 artificial intelligence (AI) consultant
51101 art gallery conservator	21211 artificial intelligence (AI) designer
50010 art gallery coordinator	21211 artificial intelligence analyst
51101 art gallery curator	21211 artificial intelligence consultant
50010 art gallery director	21232 artificial intelligence programmer
60020 art gallery manager - retail	32129 artificial limb assembler
50010 art gallery manager assistant	32129 artificial limb finisher
50010 art gallery manager	32129 artificial limb maker
53100 art gallery preparator	73101 artificial marble setter
53100 art gallery registrar	94219 artificial pearl maker
	72320 artificial stone mason

94203 armature insulator - industrial electrical equipment	53122 art instructor (except primary, secondary, post-secondary education)
72422 armature repairman/woman	53122 art instructor
94205 armature tester	52120 art layout designer
94203 armature winder - industrial electrical equipment	51100 art librarian
72422 armature winder repairer	51101 art object curator
64410 armed security guard	51101 art objects conservator
44200 armour defence gunner	53100 art objects preparator
40042 armour officer	53100 art restoration technician
64410 armoured car driver	64100 art sales consultant - retail
64410 armoured car guard	64100 art salesperson
44200 armoured soldier - Canadian Army	60040 art school manager
72205 army communication and information systems specialist	41221 art teacher - elementary school
32209 aromatherapist	41220 art teacher - secondary school
51121 arranger	53122 art teacher (except primary, secondary and post-secondary education)
94219 arrow assembler	41301 art therapist
94219 arrow point assembler	41301 art therapists' supervisor
94100 arsenic recovery operator	41301 art therapy consultant
55109 art and photography model	41301 art therapy teacher (except education)
41405 art coordinator - education	52111 art work assembler
51113 art critic	41101 articling law student
60020 art dealer	73301 articulated bus operator
14300 art department library clerk	51101 artifact conservator
51120 art director - graphic design	32129 artificial eye maker
51120 art director - motion pictures, broadcasting and performing arts	53124 artificial flower presser
51110 art editor	65211 artificial ice maker - rink
11202 art educator - museum	82030 artificial insemination service contractor
50010 art gallery administrator	84120 artificial inseminator
50010 art gallery assistant director	21211 artificial intelligence (AI) analyst
50010 art gallery chief curator	21211 artificial intelligence (AI) consultant
51101 art gallery conservator	21211 artificial intelligence (AI) designer
50010 art gallery coordinator	21211 artificial intelligence analyst
51101 art gallery curator	21211 artificial intelligence consultant
50010 art gallery director	21232 artificial intelligence programmer
60020 art gallery manager - retail	32129 artificial limb assembler
50010 art gallery manager assistant	32129 artificial limb finisher
50010 art gallery manager	32129 artificial limb maker
53100 art gallery preparator	73101 artificial marble setter
53100 art gallery registrar	94219 artificial pearl maker
	72320 artificial stone mason

72320 artificial stone setter	95100 asbestos mould stripper
94219 artificial turf maker	95100 asbestos moulder
40042 artillery officer	75110 asbestos remover
44200 artillery soldier	94130 asbestos rope maker
53124 artisan	94100 asbestos screen tender
11202 artist agent	94103 asbestos shingle assembler
53122 artist	94103 asbestos shingle cutter
11202 artistic agent	95100 asbestos shingle floor hand
53124 artistic bouquet designer	94104 asbestos shingle inspector
51120 artistic director - motion picture	94103 asbestos shingle maker
51121 artistic director - music	94103 asbestos shingle presser
53124 artistic floral arranger	94107 asbestos wire finisher
53124 artistic floral bouquet designer	75110 asbestos worker - construction
53124 artistic floral designer	95100 asbestos worker - mineral processing
52120 artistic illustrator	95100 asbestos worker
53122 artistic painter	95100 asbestosboard sander
53122 artistic printmaker	95100 asbestosboard shearer
53111 artistic rigger	94107 asbestos-covered wire finisher
50010 arts administrator	75101 ash handler
54100 arts and crafts instructor	41200 Asian studies professor - university
54100 arts and crafts leader - sports and recreation	73110 asphalt and gravel roofer
54100 arts and crafts leader	73400 asphalt batch plant operator
41406 arts and crafts programs coordinator	94110 asphalt coater - chemical processing
41220 arts and crafts teacher - secondary school	75110 asphalt cold patcher
53124 arts and crafts teacher (except education)	21300 asphalt engineer
00013 arts and culture association chairperson	94110 asphalt heater tender
54100 arts and leisure leader	75110 asphalt mixer
54100 arts and recreation leader	72021 asphalt paving foreman/woman
00013 arts association executive director	72021 asphalt paving labour gang foreman/woman
94103 asbestos board curer	94110 asphalt plant dryer tender
94103 asbestos board machine operator	75110 asphalt plant labourer - construction
94103 asbestos board machinery setter	73400 asphalt plant operator
94103 asbestos brake lining finisher	75110 asphalt raker
94104 asbestos classifier	73400 asphalt roller operator
94100 asbestos dryer	75110 asphalt roofer helper
94104 asbestos fibre inspector and tester	73110 asphalt roofer
75110 asbestos fibre preparer	72014 asphalt roofers foreman/woman
94104 asbestos grader	72014 asphalt roofing contractor
72321 asbestos insulator	72014 asphalt roofing foreman/woman
92010 asbestos manufacturing foreman/woman	94110 asphalt roofing material mixer
94103 asbestos mixer tender	94110 asphalt roofing materials inspector

94219 asphalt roofing materials slitter operator	72405 assembly fitter
94219 asphalt roofing slitter operator	92020 assembly foreman/woman - motor vehicle manufacturing
73110 asphalt shingle roofer	92023 assembly foreman/woman, helicopters
73110 asphalt shingler	92021 assembly foreman/woman, semiconductors
73400 asphalt spreader operator	94201 assembly inspector - electronic equipment manufacturing
75110 asphalt spreader	94210 assembly inspector - furniture manufacturing
73400 asphalt street paver operator	94200 assembly inspector - motor vehicle manufacturing
75110 asphalt worker - road	94212 assembly inspector - plastic manufacturing
73400 asphalt-grooving machine operator	94202 assembly inspector, electrical appliances
73400 asphalt-paving machine operator	94202 assembly lead hand - electrical equipment manufacturing
73400 asphalt-paving screed operator	94202 assembly lead hand, large electrical appliances
43204 assault pioneer	94202 assembly lead hand, small electrical appliances
22101 assayer - mineralogy	94202 assembly line expeditor - electrical equipment manufacturing
22101 assayer	95109 assembly line general labourer
94210 assembled furniture inspector	94211 assembly line gluer - wood products manufacturing
94211 assembled wood products repairer	94202 assembly line inspector - electrical equipment manufacturing
94200 assembler - automobile assembly	94212 assembly line inspector - plastic manufacturing
94201 assembler - electronic equipment manufacturing	94202 assembly line inspector and tester - electrical equipment manufacturing
65320 assembler - laundry and dry cleaning	94213 assembly line painter
94202 assembler air conditioner	94112 assembly line tire repairer
72106 assembler tack welder	94205 assembly machine setter - electrical equipment manufacturing
94200 assembler-mechanic - motor vehicle manufacturing	94205 assembly machine set-up person - electrical equipment manufacturing
92013 assemblers foreman/woman - rubber and plastic manufacturing	72405 assembly mechanic-fitter lead hand
94211 assemblers lead hand - wood products manufacturing	72020 assembly mechanics foreman/woman
92015 assemblers supervisor - fabric, fur and leather products manufacturing	94213 assembly painter
92013 assemblers supervisor - rubber and plastic products manufacturing	94219 assembly press operator
93200 assembly and installation aircraft inspector	94219 assembly press set-up operator
92021 assembly and test electronic equipment manufacturing supervisor	94200 assembly quality upgrader - motor vehicle manufacturing
92021 assembly and test foreman/woman - electronics manufacturing	92021 assembly supervisor - electronic equipment manufacturing
92021 assembly and test supervisor - electronics manufacturing	92020 assembly supervisor - motor vehicle manufacturing
92021 assembly and test supervisor	94201 assembly tester - electronic equipment manufacturing
92021 assembly and testing supervisor - electronic equipment manufacturing	
92020 assembly coordinator - motor vehicle manufacturing	

92020 assembly zone supervisor - motor vehicle manufacturing	53123 assistant costume designer
12104 assessing officer - taxation	10019 assistant court registrar
12104 assessing unit head - taxation	10021 assistant credit manager
14200 assessment clerk	41101 Assistant Crown Attorney
12011 assessment clerks supervisor	51101 assistant curator
12203 assessor (except tax)	40020 assistant dean - college or university
10010 assigned public accountants chief	60020 assistant department manager - retail
12011 assistant accountant	10019 assistant deputy court registrar
10010 assistant accounting manager	00011 assistant deputy minister - government services
30010 assistant administrator for nursing	00011 assistant deputy minister
52120 assistant animator - animated films	40040 assistant deputy police chief
12203 assistant appraiser	94121 assistant digester operator - pulp and paper
51102 assistant archivist	51120 assistant director - motion pictures, broadcasting and performing arts
50010 assistant art gallery administrator	50010 assistant director of archives
50010 assistant art gallery director	50010 assistant director of historical park
12011 assistant bank accountant	30010 assistant director of nursing services
60030 assistant bar manager	30010 assistant director of nursing
94152 assistant binder	40012 assistant director of school services - public administration
94121 assistant bleacher operator - pulp and paper	40012 assistant director of school services
94152 assistant bookbinder	51120 assistant director
10021 assistant branch manager - banking, credit and investment	40021 assistant district school superintendent
11202 assistant brand manager - advertising	83101 assistant driller - offshore drilling rig
94140 assistant brewer - food and beverage processing	83101 assistant driller - oil and gas well drilling
62101 assistant buyer	51110 assistant editor
52110 assistant camera operator	72603 assistant engineer - water transport
32123 assistant cardiology supervisor	00012 assistant executive director - financial, communications and other business services
62200 assistant chef	00015 assistant executive director - goods production, utilities, transportation and construction
40010 assistant chief health inspector - government services	00011 assistant executive director - government services
40040 assistant chief inspector - police	00013 assistant executive director - health, education, social and community services and membership organizations
00011 assistant chief statistician - government services	62021 assistant executive housekeeper
94121 assistant coating operator - pulp and paper	11101 assistant financial analyst
00011 assistant comptroller general - government services	12011 assistant financial institution accountant - financial services
10021 assistant consumer credit manager	62201 assistant funeral director
11100 assistant controller	70020 assistant general agent - railway
63200 assistant cook	00011 assistant general director - government services
10021 assistant corporate banking services manager	
41101 assistant corporate counsel	

41101 assistant general solicitor	40021 assistant school district superintendent
70012 assistant grain elevator manager	70012 assistant shopping centre manager
22111 assistant grain inspector	70012 assistant shopping mall manager
31300 assistant head nurse	52113 assistant sound editor
62021 assistant housekeeping manager	70020 assistant superintendent - railway
41101 assistant legal advisor	40021 assistant superintendent of schools
60031 assistant manager - accommodation services	82021 assistant toolpusher - offshore drilling rig
60030 assistant manager - food services	70020 assistant traffic manager - transportation
60020 assistant manager - food store	72203 assistant transmission lineman/woman - electric power systems
60020 assistant manager - retail trade	70020 assistant transportation manager
60020 assistant manager - retail	10010 assistant treasurer - finances
60020 assistant manager - wholesale trade	00011 assistant undersecretary of state
94140 assistant miller - food and beverage processing	12202 assistant underwriter - insurance
41302 assistant minister - religion	10010 assistant vice-president - financial, communications and other business services
50010 assistant museum administrator	90010 assistant vice-president - goods production, utilities and transport
51101 assistant museum curator	40019 assistant vice-president - government services
50010 assistant museum director	40030 assistant vice-president - health, education, social and community services and membership organizations
52100 assistant music librarian	10029 assistant vice-president - trade, broadcasting and other services
94151 assistant newspaper make-up man/woman	65200 assistant waiter/waitress - food and beverage services
30010 assistant nursing services administrator	70012 assistant warehouse manager
82021 assistant offshore drilling rig superintendent	32109 assistive listening device technician
10021 assistant operations manager - banking, credit and investment	21210 associate actuary
93101 assistant operator - chemical processing	63101 associate broker - real estate
32102 assistant paramedic	41100 associate chief justice
62022 assistant passenger service coordinator - railway	41101 associate counsel
13102 assistant paymaster	51110 associate editor
12101 assistant personnel officer	11102 associate financial advisor
82021 assistant platform superintendent	11102 associate investment advisor
40040 assistant police commissioner	41101 associate lawyer
72025 assistant postmaster/mistress	41101 associate legal advisor
73401 assistant press operator - printing	41101 associate legal counsel
11202 assistant press secretary	51100 associate librarian
73401 assistant pressman/woman - printing	41200 associate professor - university
73401 assistant pressman/woman	40020 associate registrar
40021 assistant principal	40021 associate superintendent - schools
41200 assistant professor - university	40030 association director
41101 assistant regional counsel	
10021 assistant regional manager - banking	
53100 assistant registrar - museum	

00013 association executive director	64101 auctioneer
40030 association manager	22310 audio amplifier repairer - production
21110 astrobiologist	21310 audio engineer - electricity and electronics
65229 astrologer	52113 audio engineer - recording studio
65229 astrologist	64100 audio equipment consultant - retail
21109 astronaut	64100 audio equipment salesperson
21100 astronomer	60020 audio equipment store manager
41200 astronomy professor - university	52113 audio operator assistant
21100 astrophysicist	52113 audio operator
11202 athlete agent	52113 audio recording studio operator
53200 athlete	22311 audio stereo technician
11202 athletes manager	52113 audio technician
53201 athletic boxing trainer	32109 audiological technician
62029 athletic club attendant supervisor	31112 audiologist
65211 athletic equipment attendant	31112 audiology clinician
65211 athletic equipment custodian	31112 audiology specialist
70012 athletic facility manager	32109 audiology technician
31204 athletic therapist	33109 audiometric aide
31204 athletic trainer - therapy	33109 audiometric assistant
53201 athletics coach	33109 audiometric technician
54100 athletics instructor	32109 audiometrician
53202 athletics judge	32109 audiometrist
53201 athletics team coach	22311 audio-video repair technician
21101 atmospheric chemist	22311 audio-video service technician
21100 atmospheric physicist	53111 audiovisual (AV) assistant - motion pictures and broadcasting
94219 atomic fuel bundle assembler	53111 audiovisual (AV) assistant
94212 atomizer cap machine tender	22311 audiovisual (AV) equipment installer and repairer
95100 atomizer operator - primary metal and mineral products processing	22311 audiovisual (AV) equipment repair supervisor
41407 attaché	51120 audiovisual (AV) producer
65211 attendance checker	52113 audiovisual (AV) technician
12010 attendance records supervisor	65210 audiovisual helper
44101 attendant for persons with a visual impairment - home care	10010 audit and compliance director
44101 attendant for persons with disabilities - home care	14200 audit clerk
00010 attorney general	10029 audit firm manager
41101 attorney	12104 audit reviewer - taxation
41101 attorney-at-law	11100 audit unit head - taxation
41101 attorney's assistant chief agent	14200 auditing clerk
44100 au pair	10010 auditing department manager
14100 auction clerk	10029 auditing firm manager

11100 auditor - finance	72106 automated welding machine operator - flash butt process
11100 auditor-chartered accountant (CA)	74200 automatic anchor-applicator operator - railway
11100 auditors supervisor	94132 automatic basting sewing machine operator
32209 auriculotherapist	94107 automatic bolt machine operator
51111 author	94122 automatic carton maker - paper converting
51121 author-composer-performer	94122 automatic carton-making machine operator - paper converting
14301 authorization clerk	94101 automatic casting machine operator - foundry
11202 author's agent	94107 automatic coil machine operator
94200 auto assembly worker	94205 automatic coil winder - electrical equipment manufacturing
72411 auto body and collision technician	94202 automatic coil winder operator - electrical equipment manufacturing
72411 auto body appraiser	94107 automatic coiling machine operator - metal products manufacturing
72411 auto body damage estimator	94201 automatic component-assembly-machine operator - electronic equipment manufacturing
72411 auto body estimator	94105 automatic cut-off operator - metal fabrication
72411 auto body mechanic	94105 automatic cut-off saw operator - metal products manufacturing
72411 auto body repair planner	73200 automatic door system installer and servicer
72411 auto body repairer	73200 automatic door system installer
72106 auto body solderer	73200 automatic door system servicer
72411 auto body technician - collision	94120 automatic edger operator - sawmill
72411 auto body technician - refinishing	94131 automatic embroidery machine tender
72411 auto body technician	73200 automatic garage door installer
72411 auto body worker	94102 automatic glass-cutting table operator
65311 auto care worker	94103 automatic jigger man/woman - clay products
60020 auto dealership manager	94103 automatic jigger operator - clay products
65311 auto detailer	72400 automatic knitting machine pattern setter
72411 auto glass installer	94219 automatic lathe operator - clock
60020 auto glass repair shop manager	94107 automatic machine metal polisher
94200 auto parts assembler	95101 automatic machine polisher - metal products manufacturing
14401 auto parts clerk - retail	94101 automatic moulding machine operator - foundry
72100 auto parts machine shop inspector	94124 automatic nailing machine operator - woodworking
60020 auto rustproofing shop manager	94213 automatic paint-sprayer operator
94110 autoclave operator - chemical processing	75101 automatic pallet equipment operator
94130 autoclave tender - textile manufacturing	94122 automatic paper-cutting machine operator - paper converting
43109 auto-driving instructor	72400 automatic pinsetting machine installer and repairer
94151 automated letterer-engraver	
94106 automated machine tool set-up operator	
94219 automated sphere-polishing machine operator	
75101 automated storage and retrieval system operator	
92100 automated substation operator - electrical power systems	
94219 automated valve assembler	

94130 automatic quiller tender - textile manufacturing	75119 automobile body repairer helper
95100 automatic scrap washer operator	72411 automobile body repairman/woman
94106 automatic screw machine operator	75119 automobile bumper straightener
94102 automatic sealing gun operator - glass	73300 automobile carrier driver
94132 automatic sewing machine operator	12201 automobile claims technical adjuster
94124 automatic shaper operator - woodworking	65311 automobile cleaner
94130 automatic spooler operator - textile manufacturing	72411 automobile damage repair estimator
94131 automatic stocking loom tender	64409 automobile dealerships service representative
14201 automatic teller machine (ATM) clerk	94213 automobile dipper-painter
64410 automatic teller machine (ATM) guard	60040 automobile driver training school manager
22311 automatic teller machine (ATM) servicer	60040 automobile driving school manager
94106 automatic transfer machine operator - metal machining	94200 automobile engine tester - automobile assembly
72410 automatic transmission mechanic - motor vehicle	94200 automobile final inspector - automobile assembly
72410 automatic transmission technician - motor vehicles	94204 automobile gear assembler
94129 automatic veneer clipper tender - wood processing	94200 automobile hood assembler - motor vehicle manufacturing
94130 automatic warper tender - textile manufacturing	94200 automobile inspector - motor vehicle manufacturing
72106 automatic welding machine operator	94200 automobile inspector and tester - motor vehicle manufacturing
94201 automatic wire-wrapping machine tender - electronic equipment manufacturing	63100 automobile insurance agent
94130 automatic yarn winder	63100 automobile insurance salesman/woman
21310 automation engineer - electrical and electronic systems	90010 automobile interior fittings production manager
21231 automation engineer - software	64100 automobile leasing agent
20010 automation engineering manager	64100 automobile leasing representative
51100 automation librarian	74203 automobile lubricator
22301 automation technician	72410 automobile mechanic
22301 automation technologist	72020 automobile mechanics foreman/woman
94200 automobile accessories installer and repairer	94213 automobile painter - motor vehicle manufacturing
94200 automobile accessories installer	14401 automobile parts counter sales clerk - retail
64100 automobile accessories salesperson - retail	72411 automobile polisher-sander - motor vehicle repair
12202 automobile and home insurance consultant	90010 automobile production manager
12203 automobile appraiser	53200 automobile racer
94200 automobile assembler	94200 automobile radio and accessories installer - motor vehicle manufacturing
92020 automobile assembly foreman/woman	60020 automobile repair garage manager
94213 automobile assembly line painter	60020 automobile repair shop manager
94213 automobile assembly painter	43200 automobile reposessor
94200 automobile assembly worker	64100 automobile sales representative - retail
00013 automobile association executive director	64100 automobile salesperson

72410 automobile service mechanic	72020 automotive engine repair foreman/woman
60020 automobile servicing manager	21301 automotive engineer
92013 automobile tire builders foreman/woman	72411 automotive glass technician
73300 automobile transport driver	72010 automotive machine shop foreman/woman
12202 automobile underwriter - insurance	72100 automotive machinist
63221 automobile upholsterer	73209 automotive maintenance equipment servicer
73209 automobile wrecker	75119 automotive mechanic helper
64100 automobile-rental counter representative	72410 automotive mechanic
72410 automotive air conditioning mechanic	72410 automotive mechanical repairer
94200 automotive assembler - motor vehicle manufacturing	72411 automotive painter - motor vehicle repair
72411 automotive body mechanic	72411 automotive painter apprentice
72411 automotive body painter	72411 automotive painting and refinishing technician
72020 automotive body repair foreman/woman	72411 automotive painting technician
72020 automotive body repair shop supervisor	14401 automotive parts clerk - retail
72411 automotive body repairer	64101 automotive parts sales representative - wholesale (non-technical)
72411 automotive body repairer-painter	64101 automotive parts salesperson - wholesale
72020 automotive body shop foreman/woman	14401 automotive partsperson - retail
72020 automotive body shop supervisor	14401 automotive partsperson apprentice
72411 automotive body technician	94204 automotive production fitter
72410 automotive brake mechanic	94204 automotive radiator assembler
72410 automotive brake repairer	74203 automotive radiator installer
72410 automotive brake specialist	72410 automotive radiator mechanic apprentice
72410 automotive carburetor mechanic	72410 automotive radiator mechanic
73209 automotive dismantler	72410 automotive radiator repairer
94212 automotive door panelling assembler - plastic products manufacturing	72411 automotive refinishing technician
72410 automotive drivetrain technician	72020 automotive repair and service shop supervisor
72410 automotive electrical and tune-up service technician	41210 automotive repair instructor - community college
72410 automotive electrical mechanic	72411 automotive repair shop estimator
72410 automotive electrical technician	64409 automotive repair technical advisor
75119 automotive electrician helper	72410 automotive repairer
94200 automotive electronic accessories installer and repairer - motor vehicle manufacturing	94112 automotive rubber parts cutter
94204 automotive engine accessories assembler	72020 automotive service mechanics foreman/woman
94204 automotive engine assembler	72020 automotive service mechanics supervisor
72410 automotive engine mechanic inspector	72410 automotive service technician - electrical and fuel systems
94200 automotive engine quality control inspector - motor vehicle manufacturing	72410 automotive service technician - fuel and electronics systems
94200 automotive engine quality control inspector	72410 automotive service technician - steering, suspension and brakes
94204 automotive engine quality-control assembly inspector	72410 automotive service technician - transmission

72410 automotive service technician apprentice	72404 aviation mechanical component shop technician
72410 automotive service technician	32129 aviation medicine technician
74203 automotive shock absorber installer	94213 aviation painter
72410 automotive technician - air conditioning system	14401 aviation partsperson
72410 automotive technician - automatic transmission systems	40020 aviation school manager
72410 automotive technician - brakes systems	22313 aviation systems technician - Canadian Armed Forces
72410 automotive technician - electrical and electronic systems	72106 aviation welding technician
72410 automotive technician - engine and fuel systems	44200 aviator - Royal Canadian Air Force
72410 automotive technician - front-end systems	22313 avionics and electronics calibration specialist
72410 automotive technician - fuel systems	94201 avionics assembler
72410 automotive technician - standard transmission systems	21310 avionics engineer
72410 automotive technician - transmission systems	94201 avionics equipment assembler
72020 automotive testing shop supervisor	22313 avionics inspector
63221 automotive upholsterer	22313 avionics maintenance technician
72410 automotive vehicle tester	22313 avionics mechanic
72410 automotive vehicle testing mechanic	12013 avionics service supervisor
94203 automotive wiring harness inspector - industrial electrical equipment	22313 avionics systems installer
72422 automotive-generator and starter repairer	22313 avionics technician
64100 automotives sales consultant	73209 awning and tent repairer
33109 autopsy assistant	73200 awning erector
33109 autopsy attendant	94219 awning frame assembler
31100 autopsy pathologist	75110 awning installer helper
33109 autopsy technician	73200 awning installer
32120 autopsy technologist	94200 axle assembler - automobile assembly
94100 auxiliary equipment operator - primary metal processing	94107 axle cutter
92100 auxiliary equipment operator	94106 axle lathe operator
92100 auxiliary plant operator	94131 Axminster carpet weaver
22214 avalanche controller	32209 ayurvedic practitioner
22214 avalanche observer	
22214 avalanche technician	
31103 avian veterinarian	
51101 aviation and space museum curator	
22313 aviation electrical components technician	
22313 aviation electronic components technician	
22313 aviation instrument technician	
72100 aviation machinist	
72404 aviation maintenance inspector	
	B
	94219 baby carriage assembler
	92024 baby carriage assembly foreman/woman
	42202 baby-care worker assistant
	42202 baby-care worker
	42202 baby-care workers supervisor
	44100 babysitter - fitness centre
	44100 babysitter - shopping centre
	44100 babysitter
	44100 babysitting caregiver

64321 baccarat croupier	65210 baggage porter
95109 back padder - furniture manufacturing	64312 baggage tracer - airline
94112 back strip machine tender - rubber products manufacturing	64312 baggage tracing agent - airline
94130 back tender - cloth printing	95106 bagger - food and beverage processing
21231 backend engineer	65320 bagger - laundry and dry cleaning
21234 back-end web developer	65102 bagger
84100 backfill plant operator - underground mining	95109 bagging machine feeder
84100 backfiller - underground mining	94140 bagging machine setter - food and beverage processing
52120 background artist	94140 bagging machine set-up man - food and beverage processing
72401 backhoe mechanic	94140 bagging machine set-up man/woman - food and beverage processing
73400 backhoe operator	95100 baghouse attendant - mineral processing
94110 backing-in machine tender	94100 baghouse operator
94201 backplane and frame wiring operator	94111 bag-making machine operator - plastic manufacturing
51122 back-up musician	94122 bag-making machine set-up operator - paper converting
94140 bacon curer	95103 bag-making machine tender helper
94143 bacon grader	43200 bailiff
22110 bacteriological technician	94111 bakelite mixer operator - plastic manufacturing
22110 bacteriological technologist	94140 Bake-off equipment tender - food and beverage processing
21110 bacteriologist - animal health	63202 baker - retail
21110 bacteriologist	63202 baker apprentice
41200 bacteriology professor - university	95106 baker helper
53200 badminton player	63202 baker
65102 bag clerk	65102 bakery assistant - food store
95109 bag liner - packaging	63202 bakery bench hand
94111 bag machine operator	64100 bakery clerk
53124 bag maker - arts and crafts	64100 bakery counter clerk
94122 bag maker - paper converting	75201 bakery deliveryman/woman
94122 bag repairer - paper products	60020 bakery department manager
94132 bag sewer - textile manufacturing	92012 bakery foreman/woman - food and beverage processing
63202 bagel baker	64100 bakery goods sales clerk
63202 bagel maker	95106 bakery labourer
64312 baggage agent - airline	94140 bakery machine operator - food and beverage processing
64313 baggage agent - railway	72400 bakery machinery mechanic
64313 baggage agent (except airline)	60020 bakery manager - food store
64313 baggage clerk (except airline)	60020 bakery manager - retail
62022 baggage handler supervisor	
65210 baggage handler	
74202 baggage loader - air transport	
65210 baggage master	
62022 baggage porter supervisor	

92012 bakery plant supervisor	94131 ball fringe machine tender
95106 bakery products bander	92010 ball mill foreman/woman - mineral products processing
95106 bakery products divider - food and beverage processing	95100 ball mill helper - mineral products processing
95106 bakery products packager	95100 ball mill labourer - mineral products processing
95106 bakery products wrapper	94100 ball mill operator
75201 bakery route salesman/woman	95100 ball mill worker - mineral products processing
63202 bakery supervisor - retail	95109 ball weigher - toy manufacturing
62010 bakery supervisor - supermarket	84101 ballast control operator - offshore drilling rig
63202 bakery supervisor	74200 ballast regulator operator - railway
92012 baking and confectionery making foreman/woman	94202 ballast transformer assembler
92012 baking foreman/woman - food and beverage processing	94202 ballast transformer tester
53124 balalaika maker	74200 ballast-equalizer operator - railway
14200 balance clerk	74200 ballast-leveller operator - railway
94205 balancing machine operator - electrical equipment manufacturing	53120 ballerina
94205 balancing machine operator - small electric motors	50011 ballet company director
94205 balancing machine tender - electrical equipment manufacturing	53120 ballet dancer
95100 balcony labourer - glass manufacturing	53120 ballet master
95100 balcony worker - glass manufacturing	53120 ballet teacher
94130 bale breaker - textile manufacturing	72100 ballistic laboratory machinist
95105 bale checker - textile processing	21109 ballisticians
94130 bale-breaker tender - textile manufacturing	21109 ballistics examiner
84120 baler - agriculture	95104 balloon collar roller - rubber products manufacturing
94121 baler - pulp and paper	95104 balloon form stripper and cleaner - rubber products manufacturing
95109 baler tender - packaging	95104 balloon leacher and curer - rubber products manufacturing
95109 baler tender	64322 balloon pilot
94121 balerman/woman - pulp and paper	94150 balloon printer
95109 balerworker	53120 ballroom dancing teacher
84120 baling machine operator - farm	94112 banbury machine operator - rubber products manufacturing
95104 baling machine tender - rubber and plastic products manufacturing	94111 banbury mixer operator - plastic manufacturing
95109 baling press tender - printing	94112 banbury mixer operator - rubber products manufacturing
94121 baling press tender - pulp and paper	94111 banbury operator - plastic manufacturing
95104 baling press tender - rubber and plastic products manufacturing	94112 banbury operator - rubber products manufacturing
92023 ball and roller-bearings assembly foreman/woman	13100 band administrator
94219 ball bearing inspector	94112 band assembler - rubber products manufacturing
94219 ball bearing tester	51121 band conductor

51121 band director	65200 banquet headwaiter/headwaitress
00011 band manager - First Nations	60030 banquet manager
95109 band nailer - wood products	65210 banquet porter
94124 band resaw operator - woodworking	65200 banquet server
94124 band rip saw operator - woodworking	65200 banquet waiter/waitress
94124 band saw operator - woodworking	94211 banquette assembler - wood product manufacturing
94124 band saw tender - woodworking	64301 bar attendant
94124 band scroll saw operator - woodworking	65201 bar helper
94112 band stock preparer - rubber products manufacturing	60030 bar manager
95106 banding machine tender - tobacco products	93100 bar mill finisher - primary metal processing
94124 banding machine tender - woodworking	65200 bar service waiter/waitress
94131 band-knitting machine operator	64301 bar steward
51121 bandmaster	94107 barbed wire machine tender
75101 bandoleer packer - explosives manufacturing	63210 barber apprentice
95109 bandoleer straightener-stamper	60040 barber shop manager
94124 band-sawing machine tender - woodworking	63210 barber
11100 bank branch accountant	11200 bargaining agent
10021 bank branch manager	75210 barge captain
14201 bank clerk	74201 barge deckhand
12011 bank clerks supervisor	75100 barge loader
00012 bank credit vice-president	75210 barge operator
64400 bank customer service officer	65201 barista
10021 bank director	51122 baritone
11109 bank inspector	64301 barkeeper
10021 bank manager	94129 barker operator
74102 bank messenger	95103 barking machine cleaner - wood processing
52120 bank note designer	94129 barking machine operator - wood processing
00012 bank president	64301 barmaid
11100 bank reserves auditor	64301 barman/barwoman
74102 bank runner	85100 barn worker
64400 bank teller	94219 barometer assembler
10021 banking accounts manager	94124 barrel assembler
63102 banking accounts officer	95109 barrel charrer
11102 banking advisor	95106 barrel cleaner - food and beverage processing
10021 banking centre manager	94124 barrel cooper - woodworking
10021 banking operations manager	94124 barrel end machine tender - woodworking
11100 bankruptcy trustee	94124 barrel end sawyer
65200 banquet captain	95106 barrel filler - food and beverage processing
62200 banquet chef	94124 barrel heading sawyer
63200 banquet cook	94211 barrel inspector - wood products manufacturing

94106 barrel rifler	95102 batch dryer tender helper
95109 barrel stave leveller - wood products manufacturing	94130 batch dyer - textile manufacturing
95109 barrel straightener	94110 batch mixer - chemical processing
41101 barrister and solicitor	93102 batch operator - pulp and paper
41101 barrister	94102 batch plant tender - glass
94100 bar-straightening machine operator - metal processing	94121 batch process cook - pulp and paper
65201 bartender helper	94110 batch still operator
64301 bartender	93101 batching chemical process operator
64301 bartenders supervisor	93101 batching process chief operator
94205 base filler - electrical equipment manufacturing	94130 bather - hide and pelt processing
94219 baseball centre winder	95102 bath mix solvent recoverer
53201 baseball coach	73200 bathtub liner installer
95109 baseball glove shaper	94213 bathtub refinisher
94219 baseball maker	94213 bathtub varnisher
53201 baseball manager-coach	53124 batik artisan
53200 baseball player	53120 baton twirling instructor
53201 baseball scout	94140 batter and dough mixer - food and beverage processing
53201 baseball team coach	75110 batterboard setter
94205 base-filling machine operator - electrical equipment manufacturing	94110 battery acid adjuster
94201 base-filling machine operator - electronic equipment manufacturing	95109 battery acid dumper
94205 base-filling machine tender - electrical equipment manufacturing	94205 battery assembler
94142 basket filter tender - fish and seafood processing	94205 battery case inspector and tester - electrical equipment manufacturing
94124 basket machine operator - woodworking	94205 battery case inspector and tester
73200 basket weave fence erector	94205 battery charger - electrical equipment manufacturing
53124 basket weaver	94205 battery charger assembler
94219 basketball coverer	94205 battery charger operator - electrical equipment manufacturing
53200 basketball player	94200 battery installer - motor vehicle manufacturing
53201 basketball scout	95101 battery lead burner helper
53201 basketball team coach	72106 battery lead burner
51122 bass drum teacher - private, conservatory or studio lessons	72106 battery lead-burner operator
51122 bass player	95105 battery loader - textile processing
51122 bass	94205 battery maker
51122 bassoon teacher - private, conservatory or studio lessons	93101 battery operator - oil and gas
94132 basting machine operator - sewing	94110 battery paste maker
94121 batch digester operator	94110 battery paste mixer
	95109 battery plate offbearer
	94130 batting machine tender - textile manufacturing
	54100 beach lifeguard

75210 beachcomber	65109 beauty products consultant - door-to-door sales
95104 bead picker - rubber products manufacturing	65109 beauty products representative - home sales
94219 bead stringer	65329 beauty salon attendant
94112 bead-forming machine operator - rubber products manufacturing	21120 beauty salon inspector
94107 beading machine operator - metal products manufacturing	63210 beauty salon operator
94112 beading machine operator - rubber products manufacturing	14101 beauty salon receptionist
94102 beaker tester	65329 beauty salon supplies attendant
94131 beam changer - textiles	60040 beauty shop manager
92015 beam department foreman/woman - hide and pelt processing	63211 beauty treatment operator
94130 beam dyer - textile manufacturing	85104 beaver trapper
95104 beam press picker - rubber products manufacturing	60031 bed and breakfast manager
94130 beam setter - textile manufacturing	60031 bed and breakfast operator
94130 beam tier - textile manufacturing	94210 bed assembler
83121 beam trawl fisherman/woman	31301 bedside nurse
94130 beam warper - textile manufacturing	94210 bedspring stretcher
95105 beam warper helper - textile processing	85100 bee farm worker
94130 beamer - hide and pelt processing	94141 beef boner - meat packing plant
94130 beamer - textile manufacturing	94141 beef boner
94130 beamhouse worker - hide and pelt processing	85100 beef cattle farm worker
80020 bean sprout farmer	80020 beef cattle farmer
80020 bean sprout grower	84120 beef cattle herds person
94219 bearing assembler	94141 beef cooler worker - meat packing plant
94106 bearing borer	92012 beef dressing foreman/woman
94106 bearing grinder	94143 beef grader
94219 bearing inspector	95106 beef marker - food and beverage processing
93102 beater engineer - pulp and paper	80020 beef producer
95103 beater helper - pulp and paper	94141 beef sticker - meat packing plant
94121 beater operator - pulp and paper	94141 beef trimmer - meat packing plant
95103 beater operator helper - pulp and paper	94141 beef-pluck trimmer
92014 beater room foreman/woman - pulp and paper	80020 beekeeper
93102 beater room lead hand - pulp and paper	84120 beekeeping technician
94130 beating machine tender - hide and pelt processing	64301 beer barman/woman
63211 beautician	94143 beer bottling line quality control tester
63211 beauty care specialist	94140 beer carton packer
63211 beauty culture operator	94140 beer filter operator
43109 beauty culture school instructor	94140 beer pasteurizer
63211 beauty culturist	64101 beer sales representative - wholesale
	95106 beer sampler - food and beverage processing
	65200 beer server
	60020 beer store manager
	64100 beer store sales clerk

94143 beer tester	95101 bench grinder - metal products manufacturing
73209 beer-dispensing equipment repairer	94219 bench hand - jewellery manufacturing
94140 beet pulp press tender	72101 bench jig maker
95106 beet washer helper	94213 bench lacquer sprayer
95106 beet washer	94107 bench loom wire weaver
30010 behaviour therapy services director	94124 bench machine operator - woodworking
41301 behavioural consultant	94106 bench machine tool set-up operator
41301 behavioural therapist	72100 bench machinist
41301 behaviourist	94101 bench moulder - foundry
62022 bell captain	62202 bench moulder - jewellery
65210 bellhop	94213 bench spray painter
53124 bellows maker	72101 bench stamping die maker
53120 belly dancer	72101 bench tool maker
94112 belt brander - rubber products manufacturing	94201 bench worker - electronic equipment manufacturing
95104 belt builder helper - rubber products manufacturing	94210 bench worker - furniture manufacturing
95104 belt builder helper	95109 bench worker - garment manufacturing
92013 belt building foreman/woman - rubber and plastic manufacturing	94141 benchman/woman - meat packing plant
75101 belt conveyor attendant	94105 bender set-up operator - metal products manufacturing
95109 belt edge stainer	95101 bending machine helper - metal products manufacturing
95109 belt liner	94105 bending machine operator - metal forging
94124 belt sander - woodworking	75110 bending machine operator - pipelines
94124 belt sander operator - woodworking	94105 bending machine set-up operator - metal fabrication
94219 belt-maker operator	94105 bending machine tender - metal fabrication
75101 beltman/woman	94105 bending machine tender - metal products manufacturing
93200 bench and structural assembler - aircraft assembly	94105 bending press operator - metal fabrication
93200 bench and structural assembler	94105 bending roll operator - metal fabrication
94201 bench assembler - electronic equipment manufacturing	14201 benefits and entitlement clerk - insurance
94211 bench assembler - wood products manufacturing	13102 benefits and pension plan officer
92024 bench assemblers foreman/woman - wood products manufacturing	11200 benefits consultant
83100 bench blaster - underground mining	11200 benefits coordinator
94101 bench coremaker - foundry	10011 benefits manager
72101 bench die cutter	12104 benefits officer - government services
72101 bench die fitter	13102 benefits officer - payroll administration
72101 bench die sinker	93101 benzol agitator operator
93200 bench fitter - aircraft assembly	41301 bereavement counsellor
94204 bench fitter - buses and trucks	85101 berry picker
93200 bench fitter mechanic - aircraft assembly	53111 best boy

95109 beveller - shoe manufacturing	95100 billet helper - primary metal processing
94143 beverage and bottle inspector	95100 billet mill helper - primary metal processing
94143 beverage inspector	93100 billet mill roller - primary metal processing
60030 beverage service manager	95100 billet pusher
62101 beverage taster and buyer	95100 billet rolling mill helper - primary metal processing
94140 beverage-canning machine operator	73209 billiard and bowling equipment installer-repairer
94112 bias cutter - rubber products manufacturing	94219 billiard ball maker
95104 bias cutting machine operator helper - rubber products manufacturing	94219 billiard cloth inspector
94112 bias cutting operator - rubber products manufacturing	94124 billiard cue maker
95105 bias-cutting machine tender - fabric, fur and leather products manufacturing	73209 billiard cue weigher
41210 Bible college teacher	65211 billiard parlour attendant
41210 Bible school teacher	62029 billiard parlour supervisor
51100 bibliographer	53200 billiard player
94219 bicycle assembler	94210 billiard table assembler
92024 bicycle assembly foreman/woman	94219 billiard table cushion moulder
92024 bicycle assembly supervisor	73209 billiard table repairer
94219 bicycle inspector	73209 billiard table servicer
73209 bicycle mechanic	65211 billiards ballracker
65211 bicycle rental attendant	14200 billing clerk
72014 bicycle repair shop supervisor	12011 billing coordinator
73209 bicycle repairer	14200 billing machine operator
64100 bicycle salesperson - retail	12011 billing supervisor
60020 bicycle shop manager	12011 billing unit head
64320 bicycle tour guide	75101 bin attendant
21211 big data analyst	95106 bin cleaner - food and beverage processing
21211 big data developer	75101 bin filler
21211 big data engineer	94152 binder - printing
40019 bilateral relations chief	94152 binder and finisher - printing
40030 bilateral relations manager - social services	94152 binder and finisher
51110 bilingual editor	94152 binder assistant
13100 bilingual services coordinator	95109 binder helper - printing
14200 bill clerk	84120 binder operator - agriculture
14202 bill collector	72022 binders foreman/woman - printing
64409 bill complaints investigator	72022 binders supervisor - printing
74102 bill distributor	72022 bindery foreman/woman - printing
75110 bill poster	95109 bindery helper
14100 bill sorter	95109 bindery labourer
	95109 bindery machine feeder - printing

72022 bindery supervisor - printing	22110 biological technician
94152 bindery worker - printing	22110 biological technologist
72022 bindery workers supervisor - printing	21110 biologist
94152 binding and finishing machine operator	41200 biology professor - university
94132 binding machine operator - sewing	21110 biology systematist
94132 binding sewing machine operator	21110 biology taxonomist
94132 binding stitcher - footwear manufacturing	41220 biology teacher - secondary school
65211 bingo caller	92100 biomass plant technician
65211 bingo floor attendant	21399 biomechanical engineer
65211 bingo floorman/woman	41200 biomechanics professor - university
62029 bingo games supervisor	22310 biomedical and laboratory equipment repairer
65211 bingo hall attendant	22310 biomedical electronics technologist - Canadian Armed Forces
50012 bingo hall manager	21399 biomedical engineer - research and development
75101 binman/woman	21399 biomedical engineer
21101 bioanalytical chemist	22310 biomedical engineering technologist
21320 biochemical and biotechnical engineer	21110 biomedical nanotechnology research scientist
21320 biochemical development engineer	21210 biometrician
21320 biochemical engineer	21100 biophysicist
21101 biochemist	21399 bioresource engineer
22100 biochemistry laboratory technician	41400 bioscience officer - Canadian Armed Forces
22100 biochemistry laboratory technologist	21210 biostatistician
41200 biochemistry professor - university	21102 biostratigrapher
21101 biochemistry research scientist	21320 biotechnical engineer
22100 biochemistry technician (except medical)	21320 biotechnology engineer
22100 biochemistry technologist (except medical)	22110 biotechnology technician
22100 biochemistry technologist	80020 bird breeder
21399 bioelectrical engineer	60020 bird seller
80010 biofuels production manager	31301 birthing room nurse
41409 biogeographer	31300 birthing room nursing supervisor
51111 biographer	63202 biscuit baker
21110 bioinformatician	95106 biscuit packer
31204 biokineticist	41302 bishop
21210 biological and agricultural science statistician	95109 bisque cleaner - clay products
41409 biological anthropologist	94103 bisque kiln operator - clay products
21101 biological chemist	95100 bisque placer - mineral products manufacturing
22110 biological forensic laboratory technologist	95101 bit sharpener tender
52120 biological illustrator	93101 bitumen extraction plant operator
22110 biological laboratory technologist	93101 bitumen upgrading plant operator
21102 biological oceanographer	73400 bituminous paver operator - heavy equipment
20011 biological research department chief	
21110 biological scientist	

75110 bituminous paving labourer	94121 bleach stock preparation operator - pulp and paper
75110 bituminous paving machine operator	94130 bleacher - textile manufacturing
22230 black light technician - non-destructive testing	95105 bleacher helper - textile processing
94110 black powder grainer and glazier tender	94140 bleacher operator - food and beverage processing
94110 black powder press tender	94121 bleacher operator - pulp and paper
95109 blackboard eraser maker	94121 bleacher tender - pulp and paper
94219 blackboard maker	92015 bleaching foreman/woman - textiles
64321 blackjack croupier	94130 bleaching machine operator - textile manufacturing
72999 blacksmith - agriculture	94130 bleaching range operator - textile manufacturing
72999 blacksmith - manufacturing	94110 bleaching solution maker
72010 blacksmith foreman/woman	94110 blender - chemical processing
95101 blacksmith helper	94140 blender - tobacco processing
72010 blacksmith shop foreman/woman	95106 blender and packer - food and beverage processing
72999 blacksmith	95106 blender and wrapper - food and beverage processing
75110 blacktop raker	94110 blender operator - chemical processing
75110 blacktop spreader	94140 blender operator - food and beverage processing
94112 bladder moulder - rubber products manufacturing	84101 blender operator - oil field services
94140 blanching machine tender	94111 blender operator - plastic manufacturing
94131 blanket weaver	94100 blender tender - primary metal and mineral products processing
92010 blast furnace foreman/woman	84101 blending machine operator - oil field services
95100 blast furnace helper	94130 blending machine tender - textile manufacturing
93100 blast furnace operator	94132 blindstitch-sewing machine operator
94100 blast furnace tapper	94212 blister former - plastic products manufacturing
93100 blast furnaceman/woman	95109 blister packer
83100 blast hole driller - underground mining	94103 block cuber - concrete, clay and stone products
73402 blaster - quarrying	94103 block machine operator - concrete, clay and stone products
73402 blaster - surface mining	94213 block sander and glazier
83100 blaster - underground mining	94120 block splitter - sawmill
73402 blaster (except underground mining)	65320 blocker - laundry and dry cleaning
84100 blaster helper - underground mining	83100 blockholer - underground mining
72021 blasters foreman/woman - construction	94152 blocking press operator - printing
82020 blasters foreman/woman - mining and quarrying	94152 blocking press stamper - printing
82020 blasters foreman/woman - quarrying	94103 block-making machine tender - concrete, clay and stone products
82020 blasters foreman/woman - surface mining	51111 blogger
94219 blasting cap assembler	30010 blood bank administrator
94121 bleach boiler tender	
94121 bleach field operator - pulp and paper	
92014 bleach plant foreman/woman - pulp and paper	
93102 bleach plant operator - pulp and paper	

33101 blood bank technician	93101 boardman/woman - chemical processing
32120 blood bank technologist	64100 boat and marine equipment salesperson - retail
33109 blood donor clinic assistant	72321 boat and ship insulator
33109 blood donor clinic attendant	94219 boat assembler
33109 blood donor clinic helper	95109 boat assembly helper
33109 blood sampling attendant	94219 boat assembly inspector
93100 blooming mill roller	95109 boat assembly labourer
94111 blow moulder operator - plastic manufacturing	94219 boat assembly laminator
92013 blow moulding foreman/woman - rubber and plastic manufacturing	94219 boat assembly repairer
94111 blow moulding machine operator - plastic manufacturing	94219 boat builder
94121 blow pit tender - pulp and paper	72310 boat carpenter
94111 blow-moulding machine lead operator - plastic manufacturing	72500 boat crane operator
94111 blow-moulding process operator - plastic manufacturing	14404 boat dispatcher
94112 blow-out and test operator - rubber products	72020 boat engine repair foreman/woman
72106 blowtorch operator	94219 boat inspector
72106 blowtorch welder	72310 boat joiner
94133 blue-leather grader	75100 boat loader
94150 blueprint blocker	94219 boat motor installer
94150 blueprint developer	73209 boat propeller repairer
95109 blueprint trimmer-wrapper - printing	65211 boat rental attendant
95109 blueprinter helper - printing	94219 boat repairer
94150 blueprinting machine operator	64320 boat tour guide
51122 blues singer	72310 boatbuilding apprentice
94105 board drop hammer operator	74201 boatswain - Canadian Armed Forces
94123 board grader - wood processing	74201 boatswain - water transport
94105 board hammer operator - metal forging	74201 boatswain
94201 board laboratory operator	95105 bobbin changer - textile processing
41407 board member - government services	95105 bobbin cleaner - textile processing
40021 board of education administrator	95105 bobbin collector - textile processing
41405 board of education inspector	94130 bobbin dryer - textile manufacturing
94120 board sawyer - sawmill	95105 bobbin processor
94130 boarder - textile manufacturing	95105 bobbin scraper - textile processing
60031 boarding house keeper	95105 bobbin sorter - textile processing
60031 boarding house manager	94130 bobbin stripper - textile manufacturing
60040 boarding kennel manager	94130 bobbin winder - textile manufacturing
94130 boarding machine tender - hide and pelt processing	73400 bobcat operator
94130 boarding machine tender - textile manufacturing	53201 bobsled coach
	53201 bobsleigh coach
	72411 body and fender repairer - automobile
	72411 body and fender repairman/woman - automobile

94200 body assembler - motor vehicle manufacturing	72010 boilermaker foreman/woman
94200 body department technician - motor vehicle manufacturing	95101 boilermaker helper
94200 body frame inspector - motor vehicle manufacturing	72010 boilermaker supervisor
63211 body piercer	72010 boilermaker, plater and structural metal worker foreman/woman
94200 body production operator - motor vehicle manufacturing	72103 boilermaker
72020 body shop foreman/woman	72103 boilermaker-welder
92020 body shop supervisor - motor vehicle manufacturing	72010 boilermaking shop foreman/woman
72020 body shop supervisor	92012 boiling house foreman/woman - food and beverage processing
42100 bodyguard - police	94140 bologna maker
64410 bodyguard (except police)	94107 bolt header operator
94200 body-in-white inspector - motor vehicle manufacturing	95103 bolt loader - sawmill
94130 boiler - textile manufacturing	94107 bolt machine operator
22231 boiler and machinery inspector	94107 bolt maker
12202 boiler and machinery underwriter - insurance	94120 bolt sawyer - sawmill
72014 boiler and pipe insulation specialists foreman/woman	95106 bolter helper - food and beverage processing
72321 boiler and pipe insulator	94140 bolter operator - food and beverage processing
72014 boiler and pipe insulators foreman/woman	83100 bolter operator - underground mining
65311 boiler cleaner	94120 bolterman/woman - sawmill
72103 boiler fitter	94106 bolt-threading machine operator
22231 boiler inspector	72999 bomb-disposal expert
22233 boiler installation inspector	11101 bond analyst
72103 boiler installer	11103 bond broker
72321 boiler insulator	11103 bond dealer
95102 boiler operator helper	10020 bond sales manager
92100 boiler operator	11103 bond trader
94213 boiler painter	94112 bonder - rubber products manufacturing
72103 boiler repairer	94130 bonding machine tender - textile manufacturing
72103 boiler repairman/woman	94112 bonding press tender - rubber products manufacturing
72103 boiler shop mechanic	11109 bonds underwriter
74201 boiler tender - ships	94140 bone crusher - food and beverage processing
22230 boiler tester	51101 book conservator
95102 boiler water tester	94122 book cover creaser
72106 boiler welder	51113 book critic
95102 boilerhouse helper	51110 book editor
72400 boilerhouse machinery mechanic	94152 book finisher - printing
92100 boilerhouse operator	94122 book jacket machine tender
72103 boilermaker apprentice	11202 book publicist
	50011 book publishing manager
	14300 book returns clerk - library

51113 book reviewer	94133 boot and shoe inspector
64100 book salesperson - retail	95109 boot and shoe matcher
94152 book trimmer	95109 boot and shoe perforator
94152 bookbinder - printing	94133 boot and shoe sorter
94152 bookbinder assistant	63220 boot repairer
94152 bookbinding machine operator	63220 bootmaker
94152 book-cutting machine operator	92015 bootmakers and shoemakers foreman/woman
95104 booker - rubber products manufacturing	92015 bootmakers foreman/woman
94140 booker - tobacco processing	40011 border services manager
64310 booking agent - travel agency	43203 border services officer (BSO)
64101 booking agent - wholesale	43203 border services student officer
14101 booking clerk - hospital	43203 border services trainee officer
14101 booking clerk - medical office	94124 borer - woodworking
64313 bookings clerk - railway	94106 boring machine operator - metal machining
64313 bookings clerk - wholesale travel	94124 boring machine operator - woodworking
64313 bookings clerk (except airline)	94103 boring mill operator - concrete products
12200 bookkeeper	94106 boring mill operator - metal machining
12011 bookkeepers and accounting clerks supervisor	94106 boring mill set-up operator - metal machining
12200 bookkeeping clerk	53100 botanical garden interpreter
12011 bookkeeping supervisor	22110 botanical technician
41210 bookkeeping teacher	22110 botanical technologist
14300 bookmobile clerk	21110 botanist
51100 bookmobile librarian	41200 botany assistant professor - university
64100 bookseller	41200 botany professor - university
94152 book-sewing machine operator - printing	94219 bottle cap seal machine tender
64100 bookstore clerk - retail	95106 bottle caser - food and beverage processing
60020 bookstore manager	95106 bottle checker - food and beverage processing
72500 boom crane operator	94102 bottle inspector - glass products manufacturing
53111 boom grip	94102 bottle machine operator - glass products manufacturing
85120 boom man/woman	94102 bottle maker operator - glass and glass products
82010 boom master - logging	94102 bottle maker operator
53111 boom microphone operator	95109 bottle sorter
53111 boom operator	94102 bottle tester
72500 boom truck crane operator	95106 bottle washer - food and beverage processing
72500 boom truck hoist operator	95106 bottle washer
85120 boom worker - logging	95106 bottler
85120 boom worker - mill pond	95106 bottle-washing machine tender - food and beverage processing
85120 boom worker	92012 bottling foreman/woman - food and beverage processing
73400 boom-conveyor operator	
92015 boot and shoe foreman/woman	
94133 boot and shoe grader	

92012 bottling foreman/woman	94210 box spring unit assembler - furniture manufacturing
95106 bottling line worker	95106 box stitcher - food and beverage processing
94140 bottling machine operator - food and beverage processing	94150 box, case and lining printer
94140 bottling machine operator	95109 box-blank machine feeder
92012 bottling supervisor - food and beverage processing	75101 boxcar loader
84100 bottom cager - underground mining	94219 box-end-stapling machine tender
95109 bottom wheeler - shoe manufacturing	53200 boxer
64410 bouncer	11202 boxing promoter
64100 bouquet salesperson	65211 boxing second
73209 bow repairer	53201 boxing trainer
94130 bowker - textile manufacturing	94150 box-printing machine operator
94124 bowl blank boring and finishing machine operator	94219 box-sealing machine operator
53200 bowler	32129 brace maker
65211 bowling alley attendant	94219 bracelet assembler
54100 bowling instructor	32121 brachytherapy technologist
65211 bowling pinsetter	94131 braid maker - textiles
73209 bows repairer - stringed instruments	94131 braid weaver - textiles
75101 box bander	94131 braider - textiles
94219 box blank machine operator	94112 braider operator - rubber products manufacturing
94124 box blank repairer - woodworking	94107 braider tender
94122 box cutter - paper converting	72400 braiding machine setter
95109 box factory labourer	94112 braiding machine tender - rubber products manufacturing
75101 box filler	94131 braiding machine tender - textiles
94122 box finisher - paper converting	94107 braiding machine tender - wire products manufacturing
94122 box gluer - paper converting	14300 Braille and talking books library clerk
95109 box labeller	94150 braille duplicator
94122 box liner - paper converting	42203 braille instructor
94140 box machine operator - food and beverage processing	14112 braille keyboard operator - typesetting
94122 box maker - paper converting	94150 braille printer
94122 box maker operator	14112 braille stereograph machine operator
92014 box making foreman/woman - paper converting	42203 braille teacher
95109 box marker - manufacturing	12110 braille technician
65100 box office cashier	12110 braille transcriber
95109 box packer	12110 Braille volumes transcriber
94150 box printer - printing	94150 braille-impressing machine operator
95109 box sealer	12110 braillist
94210 box spring assembler	94200 brake assembler - motor vehicle manufacturing
94210 box spring frame assembler	94106 brake drum lathe operator

95101 brake helper - metal products manufacturing	94130 breaker tender - textile manufacturing
94105 brake setter - metalworking	94121 brakeman/woman - pulp and paper
60020 brake shop manager	63200 breakfast cook
72410 brake systems mechanic	94140 brewer helper - food and beverage processing
73311 brake worker - switching yard	92012 brewer supervisor
73311 brakeman/woman - railway yard	94140 brewer
73311 brakeman/woman - railway	94140 brewery kettle tender - food and beverage processing
73311 brakeman/woman - switching yard	95106 brewery labourer
73311 brakeman/woman	94140 brewery pumpman/woman
10021 branch administrative manager - banking, credit and investment	94140 brewery stillman/woman - beverage processing
72205 branch exchange repairer - telecommunications	92012 brewery supervisor
14300 branch library clerk	22100 brewery technician - applied chemistry
10019 branch manager - administration	22100 brewery technician
10021 branch manager - banking, credit and investment	94143 brewery tester - food and beverage processing
10020 branch manager - insurance	94140 brewery worker
60020 branch manager - retail	94140 brewhouse operator
14301 brand recorder	90010 brewmaster
94101 brass caster	94124 briar-bowl turner - woodworking
62202 brass or bronze chaser	72320 brick and stone mason
84100 brattice builder - underground mining	72014 brick and stone masons foreman/woman
72106 brazer and hammerer	95100 brick and tile batch mixer
72106 brazer	94103 brick and tile caster - clay products
95101 brazing machine feeder	94100 brick and tile crusher operator
72106 brazing machine operator	92010 brick and tile foreman/woman
72106 brazing machine setter	94104 brick and tile inspector
63202 bread baker - retail	95100 brick and tile kiln cleaner
63202 bread baker	94104 brick and tile tester
75201 bread deliverer	94103 brick and tile-making machine operator - clay products
22111 bread inspector	94103 brick baker - clay products
95106 bread pan greaser - food and beverage processing	94103 brick burner - clay products
94140 bread slicer operator	72320 brick chimney builder
94143 bread tester	75110 brick cleaner
94140 bread-slicing machine operator	94103 brick cutter - clay products
93100 breakdown mill operator	94104 brick grader
94121 breaker - pulp and paper	94103 brick kiln operator - clay products
94130 breaker feeder - textile manufacturing	94103 brick kilnman/woman - clay products
94140 breaker tank attendant - food and beverage processing	94103 brick machine set-up operator - clay products
94121 breaker tender - pulp and paper	94103 brick maker - clay products
	72014 brick masonry contractor

94103 brick moulder - clay products	42200 brief writer - law
94103 brick presser - clay products	40042 brigadier general
94103 brick presser operator	94151 bright type processor
72320 brick setter	93101 brine equipment tender
94103 brick-cutting machine operator - clay products	94100 brine maker - mineral products processing
72014 bricklayer foreman/woman	94140 brine man/woman - food and beverage processing
75110 bricklayer helper	94140 brine mixer operator - food and beverage processing
72014 bricklayer supervisor	93101 brine purification operator
72320 bricklayer	94140 brine tank separator tender
72014 bricklayer-contractor	83100 brine well tender
72014 bricklaying and masonry contractor	94100 briquetting machine operator
72014 bricklaying contractor	94141 brisket cutter - meat packing plant
72320 brickmason	42200 British Columbia notary public
75110 brickmason's helper	94106 broaching machine operator - metal machining
94103 brick-moulding machine operator - clay products	94106 broaching machine set-up operator - metal machining
64100 bridal sales consultant - retail	14100 broadcast clerk
70010 bridge and building construction manager	52112 broadcast engineer
22233 bridge and building inspector	52112 broadcast field technician
72104 bridge and girder plater	22231 broadcast interference inspector
72021 bridge and highway construction gang foreman/woman	51113 broadcast journalist
75210 bridge attendant - canal lock systems	52112 broadcast maintenance technician
72310 bridge carpenter	52112 broadcast technician
72021 bridge construction foreman/woman	52112 broadcast transmitter operator
72105 bridge construction ironworker	52114 broadcaster
70010 bridge construction superintendent	52112 broadcasting control operator
72500 bridge crane operator	52119 broadcasting coordinator
22300 bridge design technician	00014 broadcasting corporation president
21300 bridge engineer	51120 broadcasting director
75110 bridge gang worker - construction	52112 broadcasting engineer
22233 bridge inspector - construction and maintenance	62100 broadcasting equipment salesperson
22233 bridge inspector	50011 broadcasting manager
54100 bridge instructor	51120 broadcasting producer
75210 bridge keeper - lock system	21310 broadcasting professional engineer
84100 bridge operator - underground mining	51120 broadcasting sports director
73112 bridge painter	50011 broadcasting station manager
72014 bridge painters foreman/woman	52112 broadcasting switcher
54100 bridge teacher	52112 broadcasting technician
75210 bridgemaster - lock systems	52112 broadcasting transmitter operator
75210 bridgemaster	73113 broadloom installer

80020 broiler chicken producer	21110 bryologist
63200 broiler cook	84110 buckler - logging
80020 broiler producer	84110 buckler
94121 broke beater tender - pulp and paper	82010 bucklers supervisor
95103 broke hustler - pulp and paper	94124 bucket chucker - woodworking
11103 broker	75101 bucket elevator operator
14201 brokerage clerk	94124 bucket lathe operator
10020 brokerage manager - investments	73400 bucketwheel operator
94213 bronze plater	73400 bucketwheel-excavator operator
94152 bronzer - printing	95109 buckle maker
94152 bronzing machine tender - printing	94107 buckshot swage operator
94219 broom assembler	64100 bud expert - cannabis
95109 broom cleaner and cutter	11100 budget accountant
94219 broom maker	13100 budget analyst
94219 broom stitcher	10010 budget and sectoral profitability director
95109 broom trimmer	14200 budget clerk
94219 broomcorn dyer	12200 budget officer
94219 broom-stitching machine operator	12011 budget supervisor
42204 brother/sister - religion	64100 budtender - cannabis
94121 brown stock operator - pulp and paper	65200 buffet waiter/waitress
94121 brown stock washer - pulp and paper	92022 buffing and lacquering foreman/woman - furniture and fixtures manufacturing
95103 brown stock washer helper - pulp and paper	94105 buffing line setter
94140 brown sugar maker	94212 buffing machine operator - plastic manufacturing
94219 brush and mop assembler	94105 buffing machine set-up operator - metal fabrication
94103 brush coater operator - concrete products	95101 buffing machine tender - metal products manufacturing
84111 brush cutter - forestry	95100 buggy operator - primary metal processing
94219 brush finisher	73400 buggy-operator skinner
94205 brush lacer and trimmer - electrical equipment manufacturing	73400 buggy-scraper operator
94130 brush machine tender - textile manufacturing	51122 bugler
94219 brush maker operator	94140 buhr mill operator - food and beverage processing
92024 brush making foreman/woman	70011 builder - renovation
94219 brush making machine operator	70011 builder - residential
95109 brush material mixer tender	70011 builder
94213 brush stainer - production	72310 building addition carpenter
84100 brusher - underground mining	75110 building and house wrecker
94130 brusher and shearer - textile manufacturing	12203 building appraiser
94130 brushing machine operator - hide and pelt processing	65312 building caretaker
94130 brushing operator - textile manufacturing	
94205 brush-lacing and trimming operator - electrical equipment manufacturing	

72310 building carpenter	22300 building materials technician
65310 building cleaner	72021 building mover contractor
62024 building cleaning and maintenance supervisor	72021 building movers foreman/woman
62024 building cleaning supervisor	72021 building moving foreman/woman
72200 building construction electrician	70012 building operations manager
22303 building construction estimator	73201 building operator - maintenance
70010 building construction general contractor	75110 building painter helper
00015 building construction general manager	73112 building painter
22233 building construction inspector foreman/woman	22233 building safety inspector
22233 building construction inspector	65311 building sander
70010 building construction superintendent	70012 building services head
65312 building custodian	70012 building services manager
72200 building electrician	73201 building services worker
21300 building envelope engineer	52121 building space planner
65311 building exterior cleaner	73201 building superintendent
73111 building glass glazier	10012 building supplies purchasing manager
73111 building glazier	64100 building supplies salesperson - retail
73201 building handyman/woman	22212 building systems draftsman
73201 building handyperson	21301 building systems engineer
22212 building information modelling (BIM) coordinator	21301 building systems engineering project manager
22212 building information modelling (BIM) designer	72105 building systems erector
22212 building information modelling (BIM) specialist	92100 building systems operator
22212 building information modelling (BIM) technician	92100 building systems technician
22212 building information modelling (BIM) technologist	75110 building wrecker
22233 building inspector - electrical wiring	72021 building wrecking contractor
22233 building inspector - structure	72021 building wrecking foreman/woman
22233 building inspector	21300 buildings and bridge engineer
72014 building insulation material installation foreman/woman	10019 buildings, vehicles and supplies manager
72014 building insulation specialists foreman/woman	73110 built-up flat roofer
72014 building insulation supervisor	73110 built-up roofer
72321 building insulator	85121 bulb planter - landscaping
72014 building insulators foreman/woman	94140 bulk blender - tobacco processing
70012 building maintenance head	94100 bulk cement-blender tender
70012 building maintenance manager	73300 bulk goods truck driver
64101 building maintenance services sales representative	75101 bulk materials carrier operator
72014 building maintenance supervisor	75101 bulk materials loader operator
73201 building maintenance worker	75101 bulk materials unloader
13101 building managing supervisor	73300 bulk milk truck driver
70010 building materials branch director	94140 bulker blender - tobacco processing
	94140 bulk-sausage-stuffing machine operator - food and beverage processing

94106 Bullard multiple-spindle lathe operator	65311 bus cleaner
73400 bulldozer driver	70020 bus company manager
73400 bulldozer operator	72024 bus dispatcher
94219 bullet and cartridge case inspector	73301 bus driver - special needs passengers
94219 bullet and cartridge inspector	73301 bus driver
94107 bullet cutter and former - metal products manufacturing	72024 bus drivers supervisor
94107 bullet cutter and former	64409 bus information clerk
95102 bullet lubricant compounder	72024 bus inspector
94107 bullet maker	72024 bus inspector-dispatcher
94101 bullet moulder - foundry	72410 bus mechanic
94219 bulletin board fabricator	45100 bus monitor
94219 bulletin board maker	73301 bus operator - accessible services
94107 bullet-shaping machine tender	73301 bus operator
94107 bullet-swaging machine adjuster	64401 bus parcel express clerk
94107 bullet-swaging machine setter - metal products manufacturing	94204 bus parts inspector
94107 bunching machine operator	65101 bus refueler
95109 bundle wrapper	64409 bus schedule information clerk
95109 bundler - manufacturing	14405 bus scheduler
65211 bungee jump attendant	64409 bus service information clerk
83110 bunk skidder operator	14100 bus terminal clerk
50011 bureau chief - news agency	64313 bus ticket agent
31301 burn patient care nurse	64320 bus tour guide
31300 burn unit nursing coordinator	14405 bus transportation service coordinator
31300 burn unit nursing supervisor	65311 bus washer
31301 burn victim care nurse	72600 bush pilot
93101 burner operator - petroleum	95100 busher - primary metal processing
94105 burning machine operator - metal fabrication	94202 bushing assembler - small transformer manufacturing
94105 burning table operator - metal fabrication	94203 bushing core winder - industrial electrical equipment
94130 burnisher - hide and pelt processing	95109 bushing tender
95101 burnisher - metalworking	41200 business administration professor - university
94219 burnisher operator - footwear manufacturing	41210 business administration teacher - college level
94219 burnishing machine operator - footwear manufacturing	41210 business administration teacher
72410 bus and transport mechanic	52121 business aircraft interior designer
94204 bus and truck floor framer	72600 business aircraft pilot
94204 bus and truck frame builder	21221 business analyst - computer systems
72410 bus and truck mechanic	41401 business analyst - economics
72020 bus and truck repair foreman/woman	11201 business analyst project manager
94204 bus assembler	41220 business and commerce teacher - secondary school
65201 bus boy/girl	

92021 business and commercial machine assembly supervisor	11201 business management consultant
92021 business and commercial machines assembly foreman/woman	90010 business manager - manufacturing
21210 business and economics statistician	10019 business manager - non-profit organization
12203 business appraiser	10022 business manager - sales and advertising
00013 business association general manager	11201 business methods analyst
00013 business association president	64409 business office service representative - telecommunications
40020 business college director	21221 business process analyst
41210 business college instructor	22211 business products designer
40021 business college principal	14101 business receptionist
41210 business college teacher	13100 business representative - club, lodge or society
11201 business consultant	40020 business school director
21221 business continuity analyst	00013 business school general manager
21221 business data analyst	40020 business school manager
40011 business development director - government services	40020 business school principal
10020 business development manager - damage insurance	13100 business services officer
41402 business development officer	12102 business services purchasing officer
14301 business documentalist	64101 business services sales representative
41401 business economist	21221 business solutions consultant
51110 business editor	41210 business subjects teacher - vocational institute
41220 business education teacher	21221 business systems analyst
64101 business equipment sales representative - wholesale	21221 business systems consultant
64410 business establishment investigator	20012 business systems manager
12104 business expertise advisor - government services	21221 business systems specialist - computer systems
12104 business expertise consultant - government services	41220 business teacher - secondary school
52120 business forms designer	72205 business telephone equipment installer and repairer
64101 business forms sales representative	72205 business telephone equipment maintainer
00013 business general manager	12203 business valuation officer
41401 business intelligence analyst - economic research	12203 business valuator
21221 business intelligence analyst - information technology (IT)	55109 busker
41401 business intelligence analyst	63201 butcher - butcher shop
21221 business intelligence specialist	63201 butcher - delicatessen
41402 business issues lobbyist	63201 butcher - retail or wholesale
41210 business law teacher	63201 butcher - wholesale
22311 business machine servicer	63201 butcher apprentice
11201 business management analyst	63201 butcher assistant
	95106 butcher helper - meat processing
	65202 butcher helper - retail and wholesale
	64100 butcher shop clerk
	65329 butler

94143 butter grader	94210 cabinet assembler - wood products manufacturing
22111 butter inspector	92022 cabinet assembler and wood furniture maker foreman/woman
94140 butter maker	94210 cabinet inspector - furniture manufacturing
95106 butter packer	00010 cabinet minister
95106 butter sampler	40019 Cabinet relations director
95106 butter wrapper	40019 Cabinet relations manager
94143 butterfat tester	72311 cabinetmaker apprentice
95109 button assorter	72311 cabinetmaker
94219 button designer and sample maker	72013 cabinetmakers foreman/woman
94122 button envelope machine tender	75110 cabinetmaker's helper
94219 button finisher	72013 cabinetmaking contractor
94219 button machine operator	94107 cable armourer
94219 button machine setter	65211 cable car operator
94219 button maker	75210 cable ferry deckhand
95109 button marker	75210 cable ferry operator
94219 button press operator	85120 cable hooker - logging
94132 button stayer	72011 cable installation and repair foreman/woman - telecommunications
94219 button-covering machine setter	75119 cable installation and repair helper - telecommunications
94132 buttonhole finisher	72011 cable installation contractor
94132 buttonhole machine operator	72011 cable installation foreman/woman
94132 buttonhole maker	72011 cable installation supervisor
94132 buttonhole stayer	72203 cable installer - electric power systems
94219 button-moulder operator	72203 cable installer - electrical power
94219 buttons inspector	72204 cable installer - telecommunications
95109 button-sorting machine feeder	72203 cable installer and repairer - electric power systems
12102 buyer - manufacturing and processing	75119 cable installer helper
12102 buyer - purchasing	72011 cable installers and repairers foreman/woman - telecommunications
62101 buyer - retail	95109 cable insulator helper
62101 buyer - wholesale	94107 cable insulator
62101 buyers supervisor	72203 cable jointer - electric power systems
14301 by-law clerk	72203 cable line worker - electric power systems
43202 by-law enforcement officer	72011 cable maintenance and repair supervisor
43202 by-law enforcement officers supervisor	72204 cable repair technician - telecommunications
92011 by-products extraction foreman/woman - chemical processing	72203 cable repairer - electric power systems
	72204 cable repairer - telecommunications
	75119 cable repairer helper - telecommunications
	75119 cable repairer helper
C	
11100 CA (chartered accountant) student	
64410 cabin baggage inspector	
94210 cabinet assembler - furniture manufacturing	

84110 cable skidder operator	94100 cadmium zinc leacher
72203 cable splicer - electric power systems	60030 café manager
72203 cable splicer - electrical power	65100 cafeteria cashier
75119 cable splicer helper	63200 cafeteria cook
72011 cable splicers foreman/woman - telecommunications	65201 cafeteria counter attendant
72011 cable splicing foreman/woman - telecommunications	65201 cafeteria helper
72205 cable station tester - telecommunications	60030 cafeteria manager
72204 cable television installation technician	62020 cafeteria supervisor
72204 cable television installer	65201 cafeteria worker
72204 cable television maintenance technician	65201 cafeteria-buffet attendant
72205 cable television service installation technician	94105 cage builder - metal fabrication
64100 cable television service salesperson	94107 cage maker - wire products manufacturing
72205 cable television service technician	62010 cage supervisor - casino
72011 cable television system installers and repairers foreman/woman	84100 cage tender - underground mining
72204 cable tester - telecommunications	84100 cage tender
72501 cable tool driller - water well drilling	63202 cake and pastry decorator - retail
72106 cable welder	63202 cake baker - retail
72011 cable workers front line supervisor	63202 cake decorator - retail
83110 cable yarding operator	63202 cake decorator
83110 cable yarding system operator	63202 cake icer
94107 cable-braiding machine operator	94140 cake mix equipment operator - food and beverage processing
94205 cable-coding machine tender - electrical equipment manufacturing	94111 cake press operator - plastic manufacturing
72203 cableman/woman - electric power systems	95106 cake wrapper
75119 cableman/woman helper	94100 calciner operator - mineral products processing
94205 cable-marking machine tender - electrical equipment manufacturing	94110 calciner tender
64100 cable-TV and pay-TV sales representative	14201 calculation clerk - insurance
72205 cablevision servicer	41220 calculus teacher - secondary school
72011 cablevision technician supervisor	64320 calèche driver
72011 cablevision technicians foreman/woman	64320 calèche operator
21203 cadastral surveyor	95104 calender feeder - rubber and plastic products manufacturing
65211 caddie	95105 calender helper - textile processing
94100 cadmium control operator - zinc leaching	94112 calender let-off operator - rubber products manufacturing
94213 cadmium galvanizer	94112 calender machine operator - rubber products manufacturing
95100 cadmium leach helper	94121 calender man/woman - pulp and paper
94110 cadmium liquor maker	94111 calender operator - plastic manufacturing
94100 cadmium plant operator	94121 calender operator - pulp and paper
94100 cadmium recoverer	94112 calender operator - rubber products manufacturing

94130 calender operator - textile manufacturing	65201 camp lunchroom attendant
94112 calender roll warmer - rubber products manufacturing	60031 camp manager
94111 calender wind-up tender - plastic manufacturing	65200 camp waiter/waitress
94112 calender wind-up tender - rubber products manufacturing	10022 campaign manager
94121 calenderer - pulp and paper	65211 campground attendant
92013 calendering foreman/woman - rubber and plastic manufacturing	65312 campground cleaner
94111 calendering machine tender - plastic manufacturing	65211 campground gate attendant
94130 calendering machine tender - textile manufacturing	85121 campground maintenance worker
94141 calf skinner - meat packing plant	60031 campground manager
22310 calibration tester	60031 campground operator
64409 call centre agent - customer service	65211 campground supervisor
22221 call centre agent - technical support	65211 campground worker
62023 call centre agent supervisor	70012 campus maintenance manager
10029 call centre manager	95105 can doffer - textile processing
62023 call centre supervisor	94142 can filler - fish and seafood processing
52120 calligrapher	94143 can inspector - food and beverage processing
52120 calligraphic artist	94107 can inspector - metal products manufacturing
54100 callisthenics instructor	94107 can machine operator
94219 camera assembler	94107 can machine setter
94219 camera assembly inspector	72400 can seamer machine repairer
53111 camera crane operator	94130 can tender
64100 camera equipment salesperson - retail	21203 Canada lands surveyor
94219 camera inspector	22233 Canada Mortgage and Housing Corporation (CMHC) inspector
94151 camera operator - graphic arts	14100 Canadian Police Information Centre (CPIC) operator
94151 camera operator - printing	12203 Canadian residential appraiser (CRA)
52110 camera operator	41310 Canadian Security Intelligence Service (CSIS) investigator
72014 camera repair shop supervisor	70012 canal director
73209 camera repairer	72400 canal equipment mechanic
73209 camera repairman/woman	75210 canal lock operator
64100 camera salesperson - retail	75210 canal lock tender
60020 camera store manager	75210 canal lockman/woman
94106 camming machine operator - metal machining	70012 canal superintendent
63200 camp cook	12111 cancer registrar
65201 camp cook's helper	94140 candied fruit processor
54100 camp coordinator	94219 candle decorator
54100 camp counsellor	92024 candle making foreman/woman
54100 camp leader	95109 candle manufacturing labourer
	95109 candle-wrapping machine tender
	94140 candy centre maker

94143 candy inspector	94219 canoe canvasser
95106 candy maker helper	53124 canoe repairer - arts and crafts
94140 candy maker	64322 canoeing guide
95106 candy packer	53200 canoeist
94140 candy puller and roller	95103 cant loader - wood processing
95106 candy wrapper	75201 canteen driver
94140 candy-cutting machine tender	60030 canteen manager
94140 candy-making machine tender	60030 canteen services manager
94140 candy-rolling machine operator	62020 canteen supervisor
94140 candy-spinning machine operator - food and beverage processing	94120 canter operator - sawmill
94142 can-filling machine operator - fish processing	72500 cantilever crane operator
94140 can-filling machine operator - food and beverage processing	42204 cantor
94107 can-forming machine operator	94219 canvas awning maker
42100 canine-team member - police	94219 canvas canoe waterproofer
94107 can-making machine operator	95105 canvas cutter - fabric products manufacturing
94107 can-making machine setter	94219 canvas goods assembler
64100 cannabis consultant	94133 canvas goods inspector
75201 cannabis delivery driver	53125 canvas goods maker
60020 cannabis dispensary manager	53125 canvas goods pattern designer and patternmaker
64100 cannabis educator	94132 canvas goods sewing machine operator
95106 cannabis processing labourer	53125 canvas layer-out - textile products
92012 cannabis processing supervisor	53125 canvas pattern designer
60020 cannabis shop manager	53125 canvas patternmaker
85103 cannabis trim labourer	64101 canvas product sales representative
85103 cannabis trimmer	92015 canvas products manufacturing foreman/woman
94143 canned and bottled foods inspector	94219 canvas tent maker
94140 canned goods cooker	65109 canvasser - retail
94140 canned milk sterilizer	65109 canvassing agent
92012 cannery foreman/woman - food processing	94201 capacitor assembler
95107 cannery labourer - fish processing	94201 capacitor inspector
95107 cannery labourer	94201 capacitor-treating tank operator
90010 cannery manager	21311 capacity planning analyst
95106 cannery packer	94143 capon grader - food and beverage processing
95106 cannery worker - food and beverage processing	82030 caponizing service contractor
94140 canning machine operator	94110 capsule filler - chemical processing
94219 canoe assembler	94110 capsule machine operator - chemical processing
53124 canoe builder - arts and crafts	94110 capsule machine operator
94219 canoe building inspector	72600 captain - air transport
60031 canoe camp operator	40042 captain - Canadian Army

40042 captain - Royal Canadian Air Force	65329 car storage attendant
40042 captain - Royal Canadian Navy	65210 car supplier - railway
72602 captain - water transport	65311 car wash attendant
65200 captain waiter/waitress - food and beverage services	60040 car wash manager
65200 captain waiter/waitress - formal service	65311 car washer
65200 captain waiter/waitress	75211 car weigher - railway
40042 captain	94140 caramel equipment operator
51110 caption editor	94107 carbide press tender
94200 car assembler	72101 carbide tool maker
14404 car assignments clerk	94110 carbon black pelletizer
65329 car attendant	94203 carbon brush assembler
65311 car care worker	94202 carbon brush inspector - electrical equipment manufacturing
75211 car checker - railway transport	94202 carbon brush inspector
75211 car checker - railway	94203 carbon brush maker
74200 car controller - railway	94122 carbon coater operator
60020 car dealer	84101 carbon dioxide truck operator - oil field services
60020 car dealership manager	94122 carbon paper cutter
65311 car detailer	94110 carbon paste mixer operator
94200 car examiner - automobile assembly	94103 carbon planer tender - stone products
94200 car inspector - automobile assembly	94202 carbon products inspector
94200 car inspector - motor vehicle manufacturing	94151 carbon tissue cylinder preparer - printing
72403 car inspector - railway	94140 carbonation equipment operator - food and beverage processing
65329 car jockey	94140 carbonator - food and beverage processing
60020 car leasing branch manager	94122 carbon-coating machine operator
64100 car leasing representative	94130 carbonizer tender - textile manufacturing
65329 car lot attendant	94122 carbon-paper-making machine operator
72410 car mechanic	95109 carbon-rod-inserting machine feeder
94213 car painter - manufacturing	94204 carburetor assembler
65100 car park cashier	94204 carburetor assembly inspector
64100 car rental agent	94141 carcass splitter - meat packing plant
64100 car rental clerk	95106 carcass washer - food and beverage processing
72403 car repairer - railway	95106 carcass weigher - food and beverage processing
72403 car repairer apprentice - railway	14100 card filer
43200 car reposessor	72400 card fixer - textile manufacturing
74200 car retarder operator - railway yard	72400 card fixer
64100 car sales representative - retail	72400 card grinder - textile manufacturing
64100 car salesperson - retail	72400 card grinder
65311 car scrubber	94131 card lacer - textiles
94219 car seat assembler	
95103 car stacker - wood processing	

65229 card reader	31101 cardiovascular and thoracic surgeon
92015 card room supervisor - textiles	31101 cardiovascular and thoracic surgery specialist
72400 card setter - textile manufacturing	31302 cardiovascular nurse practitioner
64100 card shop clerk	32103 cardiovascular perfusion clinical instructor
94130 card stripper - textile manufacturing	32103 cardiovascular perfusion instructor
94122 cardboard box gluer	32103 cardiovascular perfusion supervisor
94122 cardboard box maker - paper converting	32103 cardiovascular perfusion technologist
94122 cardboard box press operator	32103 cardiovascular perfusionist
94122 cardboard maker - paper converting	31101 cardiovascular surgeon
94122 cardboard-tube-winding machine operator - paper converting	32123 cardiovascular technician
94130 carder - textile manufacturing	32123 cardiovascular technologist
32123 cardiac catheterization technician	11202 career agent
32123 cardiac catheterization technologist	41220 career and life management teacher
32122 cardiac sonographer	41220 career and technology studies teacher
32123 cardiac stress technologist	41321 career coach
31101 cardiac surgeon	41320 career counsellor - education
31301 cardiac surgery nurse	41321 career counsellor (except education)
32123 cardiac technician	40010 career development and employment district director - government services
32122 cardiac ultrasound technician	41321 career development counsellor
32122 cardiac ultrasound technologist	40010 career development director - government services
41302 cardinal	41321 career development facilitator
95105 carding machine cleaner - textile processing	41321 career development practitioner
94130 carding machine feeder - textile manufacturing	41220 career education teacher
72400 carding machine fixer - textile manufacturing	41220 career exploration teacher
94130 carding machine operator - textile manufacturing	41321 career group facilitator
94130 carding machine tender - textile manufacturing	40010 career information director - government services
31100 cardiologist	41321 career resource centre coordinator
32123 cardiology instructor	64312 cargo agent - airline
31301 cardiology nurse technician	74202 cargo attendant - air transport
31301 cardiology nurse	13200 cargo broker
31100 cardiology specialist	64312 cargo customer service representative - airline
32123 cardiology supervisor	64313 cargo customer service representative - bus line
32123 cardiology technician	64313 cargo customer service representative - marine shipping
32123 cardiology technologist	64313 cargo customer service representative - railway
32103 cardiopulmonary technician	74202 cargo handler - air transport
32103 cardiopulmonary technologist	72021 cargo handling supervisor
32103 cardiopulmonary technology instructor	74202 cargo loader - air transport
32103 cardiopulmonary technology supervisor	
31101 cardiothoracic surgeon	

14400 cargo location clerk	64100 car-rental counter representative
22231 cargo surveyor	64410 carry-on baggage inspector
72020 carhouse supervisor - railway transportation	64101 cartage and storage salesperson
52120 caricaturist	70020 cartage company manager
51122 carillonneur	22214 cartographer
72403 carman/woman - railway	22214 cartographic compiler
75211 carman/woman helper - railway	22214 cartographic draftsman/woman
72403 carman/woman inspector - railway	21300 cartographic engineer
95100 carnallite flux maker	22214 cartographic technician
65211 carousel operator	22214 cartographic technologist
75110 carpenter helper	94122 carton assembler - paper converting
72310 carpenter lead hand	95106 carton bander
72310 carpenter rough	95109 carton filler
72013 carpenter supervisor	94122 carton forming machine operator
72310 carpenter	94122 carton gluer
72013 carpenter-contractor	95109 carton labeller
72310 carpenter-joiner	95109 carton marker
72013 carpenters foreman/woman	95106 carton package stapler
72013 carpentry contractor	95109 carton stamper
72013 carpentry foreman/woman	95109 carton wrapper
22233 carpentry inspector	95103 carton-forming machine feeder
72310 carpentry repairman/woman	72400 carton-forming machine repairer
72013 carpentry supervisor	94122 carton-making machine operator
94132 carpet binder	95106 carton-packaging machine tender - food and beverage processing
65311 carpet cleaner	52111 cartoon background artist
60040 carpet cleaning service manager	53125 cartoon embroidery enlarger
62024 carpet cleaning supervisor	52120 cartoon film artist
94130 carpet drying machine tender - textile manufacturing	52120 cartoonist sketch
94133 carpet inspector	52120 cartoonist
73113 carpet installer	94219 cartridge assembler
75110 carpet layer helper	95100 cartridge flux maker
73113 carpet layer	94219 cartridge inspector
72400 carpet loom fixer - textile manufacturing	95101 cartridge parts cleaner - explosives and ammunition manufacturing
72400 carpet loom setter - textile manufacturing	94107 cartridge primers drop tester
75110 carpet mechanics helper	94219 cartridge-filler operator
94132 carpet sewer	94219 cartridge-loader machine operator
94219 carpet tape machine tender	94124 carver operator - woodworking
94131 carpet weaver	53124 carver
94131 carpet-tufting machine operator	94124 carving machine operator - woodworking
94131 carpet-weaving machine operator	

62024 carwash supervisor	64321 casino runner
94140 cascade blender - tobacco processing	62022 casino section head
42201 case aide - social services	62022 casino shift manager
94219 case assembler and finisher	64321 casino slot machine attendant
95109 case filler	94124 cask maker
94100 case hardener - primary metal processing	95109 casket liner
95109 case liner	95109 casket trimmer
13112 case load planner - home health care services	63221 casket upholsterer
41300 case management consultant - social work	33109 cast room technician
41300 case management social worker	94103 caster - concrete products
31203 case manager occupational therapist	94111 caster - plastic manufacturing
95109 case marker	11202 casting agent for extras
95109 case packer	11202 casting agent
43203 case review officer - immigration	51120 casting director
95106 case stacker - food and beverage processing	95100 casting helper
41300 case work consultant - social work	95100 casting house labourer
95106 caser - tobacco processing	95100 casting machine helper
41300 casework supervisor - social work	94101 casting machine operator - foundry
41300 caseworker - social work	94100 casting machine operator - primary metal processing
80020 cash crop farmer	92010 casting operations foreman/woman
14200 cash on delivery (COD) clerk	92010 casting room foreman/woman
12011 cash receipts supervisor	94111 casting room operator - plastic manufacturing
62010 cashier supervisor - retail	95100 casting wheel operator helper
65100 cashier	95100 castings cleaner - primary metal and mineral products processing
65100 cashier-wrapper	94104 castings inspector - foundry
94143 casing grader - food and beverage processing	94104 castings tester - primary metal and mineral products processing
94140 casing machine operator - food and beverage processing	95100 castings trimmer
94140 casing machine operator - tobacco processing	31301 casual duty nurse
94140 casing machine tender - tobacco processing	75212 casual worker - public works
95106 casing salter - food and beverage processing	21210 casualty actuary
95106 casing shirrer - food and beverage processing	12201 casualty insurance adjuster
95106 casing stripper - food and beverage processing	12202 casualty insurance products analyst-designer
94152 casing-in machine set-up operator - printing	12202 casualty underwriter - insurance
94152 casing-in machine tender - printing	80020 cat breeder
65100 casino cashier	73400 cat operator
62022 casino dealer supervisor	73400 cat skinner
64321 casino dealer	65109 catalogue agent - retail
00014 casino general manager	64101 catalogue agent - wholesale
50012 casino operations manager	14301 catalogue compiler
62022 casino pit boss	

52120 catalogue illustrator	52120 cell animator
65109 catalogue sales agent - retail	21110 cell biologist
51100 cataloguer - library	94100 cell operator - primary metal and mineral processing
53100 cataloguer - museum	94104 cell tester - primary metal processing
52100 cataloguing technician	92012 cellar master
93101 catalytic conversion operator	51122 cellist
93101 catalytic cracking unit operator	53124 cello maker
60020 category manager	51122 cello teacher - private, conservatory or studio lessons
10012 category purchasing manager	94111 cellophane bag machine operator - plastic manufacturing
41402 category sales analyst	94111 cellophane bag maker - plastic manufacturing
63200 caterer cook	94212 cellophane finisher - plastic manufacturing
65201 caterer helper	94111 cellophane making worker - plastic manufacturing
65200 caterer waiter/waitress	95106 cellophaner - tobacco products
60030 catering service manager	72205 cellular phone installer
62020 catering supervisor	21110 cellular physiologist
73400 caterpillar car operator	72205 cellular telephone technician
73400 caterpillar operator	94110 cellulose film caster - chemical processing
74203 caterpillar servicer (except mechanic)	94110 cellulose film dry-end tender
72401 caterpillar tractor repairer	94110 cellulose film rewinder
94201 cathode coater - electronic equipment manufacturing	22100 cellulose film solutions tester
95100 cathode loader	94110 cellulose film wet-end tender
94201 cathode-ray-tube-processing equipment setter	90011 cellulosic ethanol production plant manager
94100 cathode-stripping machine operator - zinc electrolysis	75110 cement and concrete pump tender
94140 catsup maker	95109 cement applicator - shoe manufacturing
62101 cattle buyer	94103 cement block maker - concrete products
60020 cattle dealer	94103 cement block moulder - concrete products
82030 cattle feedlot foreman/woman	73100 cement finisher apprentice
84120 cattle herdsman	72014 cement finisher foreman/woman
82030 cattle ranch foreman/woman	75110 cement finisher helper
85100 cattle ranch labourer	73100 cement finisher
85100 cattle ranch worker	72014 cement finishing contractor
80020 cattle rancher	75110 cement gun nozzle operator
75110 caulker - construction	75110 cement gun operator
93101 caustic cell operator	75101 cement loader and sacker
94121 causticizer operator	92010 cement manufacturing supervisor
73110 cedar shakes shingler	73100 cement mason apprentice
73110 cedar shingler	73100 cement mason
73102 ceiling installer	94100 cement miller
73102 ceiling system installer	

94100 cement mixer - primary metal and mineral products processing	93100 central control caster - primary metal processing
75110 cement mixer operator - construction	93100 central control caster
94103 cement pipe shaper operator - concrete products	93100 central control operator - cement manufacturing
94104 cement plant inspector	92100 central control room operator - electrical power systems
94103 cement polisher	93100 central control room operator - primary metal and mineral products processing
92010 cement processing foreman/woman	93100 central control room operator - primary metal processing
92010 cement processing supervisor	72205 central office equipment inspector - telecommunications
75110 cement pump operator	72205 central office equipment installer - telecommunications
94100 cement pumping tender	72205 central office equipment maintainer - telecommunications
72014 cement smoother foreman/woman	72205 central office equipment repairer - telecommunications
73300 cement truck driver - construction	72205 central office frame servicer - telecommunications
84101 cement truck driver - oil field services	72205 central office repairer - telecommunications
94100 cementation equipment operator	72205 central office technician - telecommunications
84101 cementer - oil field services	72205 central office tester - telecommunications
94112 cementer - rubber products manufacturing	33109 central service room worker - hospital
94112 cementer operator - rubber products manufacturing	33109 central supply aide - medical
94205 cement-filling machine operator - electrical equipment manufacturing	33109 central supply aide
84101 cementing equipment operator - oil field services	33109 central supply room supervisor - hospital
82031 cemetery foreman/woman	33109 central supply room technician - hospital
85121 cemetery labourer	72604 centralized traffic control (CTC) operator - railway traffic
70012 cemetery manager	72604 centralized traffic controller - railway traffic
85121 cemetery worker	92100 central-office power control room operator - electrical power systems
12012 census area manager assistant	40020 centre assistant manager - hotel school
12012 census area manager	94106 centreless cylindrical grinder set-up operator
14110 census clerk	94106 centreless cylindrical-grinder operator
12012 census commissioner assistant	94106 centreless grinder operator
12012 census commissioner	94106 centreless grinder set-up operator - metal machining
12012 census district manager	94121 centri-cleaner tender - pulp and paper
14110 census enumerator	94101 centrifugal casting machine tender - foundry
14110 census taker	94130 centrifugal extractor - textile manufacturing
14110 census worker	94110 centrifugal separator tender - chemical processing
72402 central air conditioner installer	
72402 central air conditioner repairer	
72402 central air conditioning installer	
72402 central air conditioning mechanic	
72402 central air conditioning repairer	
72402 central air conditioning servicer	

94140 centrifugal station tender - food and beverage processing	31204 certified athletic therapist (CAT)
94142 centrifuge machine tender - fish processing	31112 certified audiologist
94130 centrifuge operator - textile manufacturing	22313 certified avionics technician
94110 centrifuge tender - chemical processing	32103 certified clinical perfusionist (CCP)
95106 centrifuge tender - food and beverage processing	22303 certified construction estimator
95106 centrifuge tender - meat packing plant	33100 certified dental assistant
94213 ceramic and enamel refinisher	32112 certified dental technician (CDT)
53124 ceramic artist	11200 certified disability management professional
33100 ceramic denture caster	65220 certified dog master
33100 ceramic denture mechanic	41400 certified ergonomist
33100 ceramic denture moulder	11102 certified financial planner
94213 ceramic enameler	54100 certified fitness appraiser
94101 ceramic mouldmaker - foundry	11100 certified general accountant (CGA)
94213 ceramic painter	31112 certified hearing aid audiologist
53124 ceramic potter	41400 certified industrial hygienist
94213 ceramic spray painter	52121 certified interior designer
94213 ceramic sprayer	51114 certified interpreter (C.Int.)
73101 ceramic tile installer	33100 certified intra-oral dental assistant
94103 ceramic tile press operator - concrete products	32209 certified iridologist
73101 ceramic tilesetter	31204 certified kinesiologist
51101 ceramics and glass conservator	64312 certified load control agent - airline
21322 ceramics engineer	64312 certified load planner - airline
53124 ceramics teacher (except education)	11100 certified management accountant (CMA)
53124 ceramist	11201 certified management consultant
80020 cereal and oilseed grower	32101 certified nursing assistant (CNA)
80020 cereal and oilseed producer	33109 certified ophthalmic assistant
94140 cereal baker - food and beverage processing	32109 certified ophthalmic medical technologist
94140 cereal cleaner	32109 certified ophthalmic technician
94140 cereal cooker and extruder operator	32129 certified orthotist (CO)
80020 cereal farm manager	32129 certified pedorthist (C Ped)
80020 cereal grower	54100 certified personal trainer
94140 cereal maker - food and beverage processing	32124 certified pharmacy technician
94140 cereal oven tender	32129 certified prosthetist
80020 cereal producer	32129 certified prosthetist-orthotist (CPO)
94140 cereal-cleaning equipment operator	32209 certified reflexologist
94140 cereal-coating operator	42201 certified return-to-work coordinator - disability management
94152 Cerlox binder operator - printing	42201 certified return-to-work facilitator - disability management
94152 Cerlox binder operator	32209 certified rolfer
72404 certified aircraft technician	41300 certified social worker

51114 certified terminologist (C.Term.)	00011 chairperson - government services
51114 certified translator (C.Tr.)	00013 chairperson - health, education, social and community services and membership organizations
65311 cesspool cleaner	00014 chairperson - trade, broadcasting and other services
94112 chafer builder	33100 chair-side assistant - dental
94131 chain builder - textiles	95100 chalk extruder
94211 chain carrier glue clamp operator - wood products manufacturing	95100 chalk moulder - mineral products processing
95103 chain conveyor tender - sawmill	40030 Chamber of Commerce administrator
95103 chain conveyor tender - wood processing	62024 chambermaid supervisor
94107 chain inspector	65310 chambermaid
73200 chain link fence erector	94107 chamfering and boring machine operator - metal products manufacturing
84110 chain saw operator - logging	94107 chamfering machine tender
94107 chain tester	00013 chancellor - education
95105 chainer - textile processing	41302 chancellor - religion
94107 chain-link fence machine operator	94107 chandelier maker
94107 chain-making machine feeder	95109 channel closer - shoe manufacturing
94107 chain-making machine operator	94101 channel furnace operator - foundry
94107 chain-making machine tender	10022 channel marketing manager
75119 chainman/woman - land surveying	60010 channel sales manager
94131 chainman/woman - textiles	94219 channeler - footwear manufacturing
95103 chainman/woman - wood processing	51121 chansonnier
94107 chain-testing machine tender	41302 chaplain - Canadian Armed Forces
94210 chair assembler	41302 chaplain
92022 chair assembly foreman/woman - furniture and fixtures manufacturing	95106 char filter helper - food and beverage processing
94210 chair caner - furniture manufacturing	94140 char filter tender - food and beverage processing
94210 chair inspector - furniture manufacturing	92012 char house foreman/woman - food and beverage processing
94124 chair leveler - woodworking	95106 char kiln helper - food and beverage processing
95109 chair sander	94140 char kiln tender - food and beverage processing
94124 chair seat planer tender	52120 character animator
94210 chair seat weaver	53122 charcoal artist
95109 chair trimmer	94110 charcoal burner
63221 chair upholsterer	94100 charge control operator
00012 chairman/woman - financial, communications and other business services	14101 charge operator - telephone system
00011 chairman/woman - government services	32123 charge technologist - electrocardiography
00013 chairman/woman - health, education, social and community services and membership organizations	95100 charge weigher - primary metal processing
00014 chairman/woman - trade, broadcasting and other services	94205 charger - electrical equipment manufacturing
00012 chairperson - financial, communications and other business services	94219 charger - jewellery manufacturing

95100 charger helper - primary metal processing	94201 chassis installer - electronic equipment manufacturing
94205 charger operator - electrical equipment manufacturing	65229 chat line agent
94100 charging car operator	72024 chauffeurs and taxi drivers supervisor
72205 charging equipment attendant - telecommunications	72024 chauffeurs supervisor
94100 charging machine operator - mineral and metal processing	72600 check pilot
94205 charging room operator - electrical equipment manufacturing	65320 checker - laundry and dry cleaning
00013 charitable organization director	64312 check-in agent - airline
00013 charitable organization executive director	64313 check-in agent (except airline)
14110 chart clerk	65329 checkroom attendant
75210 charter boat captain	94140 cheese blender - food and beverage processing
75210 charter boat master	94140 cheese cooker
75210 charter boat operator	95106 cheese cutter
73301 charter bus driver	95106 cheese factory worker
14405 charter coordinator	94143 cheese grader
72600 charter pilot	94140 cheese grater
11100 chartered accountant (CA)	95106 cheese maker helper
10019 chartered administrator - management	94140 cheese maker
12203 chartered appraiser	62200 chef de cuisine
12203 chartered business valuator (CBV)	62200 chef de partie
11101 chartered financial analyst	62200 chef pâtissier
11100 chartered professional accountant, certified general accountant (CPA, CGA)	62200 chef
11100 chartered professional accountant, certified management accountant (CPA, CMA)	22100 chemical analysis specialist
11100 chartered professional accountant, chartered accountant (CPA, CA)	22100 chemical analyst
31200 chartered psychologist	85121 chemical applicator - lawn care
10019 chartered secretary - management	21320 chemical coating engineer
13200 chartered shipbroker	21320 chemical engineer
65310 charworker	41200 chemical engineering professor - university
84110 chaser - logging	22100 chemical engineering technician
94201 chassis assembler - electronic equipment manufacturing	22100 chemical engineering technologist
94200 chassis assembler - motor vehicle manufacturing	22100 chemical forensic lab analyst
94200 chassis assembly inspector - motor vehicle manufacturing	22100 chemical laboratory analyst
92020 chassis assembly supervisor - motor vehicle manufacturing	22100 chemical laboratory supervisor
94200 chassis inspector - motor vehicle manufacturing	22100 chemical laboratory technician
	22100 chemical laboratory technologist
	94121 chemical liquor preparation operator - pulp and paper
	20011 chemical manager
	94153 chemical mixer - photographic processing
	21102 chemical oceanographer
	21100 chemical physicist

95102 chemical plant labourer	21101 chemistry research scientist
94110 chemical plant machine operator	21101 chemistry researcher
72400 chemical plant service mechanic	21210 chemistry statistician
22100 chemical process analyst	41210 chemistry teacher - agricultural school
21320 chemical process control engineer	41220 chemistry teacher - secondary school
21320 chemical process engineer	94121 chemi-thermomechanical pulp (CTMP) machine assistant operator
75119 chemical process equipment mechanic helper	94121 chemi-thermomechanical pulp (CTMP) operator
72400 chemical process equipment mechanic	94121 chemi-wash operator - pulp and paper
93101 chemical process operator	94130 chenille tender - textile manufacturing
22100 chemical process technologist	14200 cheque control clerk
93101 chemical process unit operator	54100 chess instructor
93101 chemical processing chief technician	53200 chess player
22100 chemical processing laboratory tester	95106 chewing gum batch mixer
94110 chemical processing machine operator	95106 chewing gum production attendant
92011 chemical processing plant foreman/woman	94140 chewing-gum machine tender
22100 chemical processing quality control technician	84120 chick sexer
22100 chemical processing quality control technologist	85100 chicken catcher
92011 chemical processing supervisor	80020 chicken farmer
22100 chemical products quality control technologist	94141 chicken plucker
21320 chemical project engineer	94140 chicle centrifuge operator - food and beverage processing
94121 chemical pulping plant operator - pulp and paper	95106 chicle-grinder feeder - food and beverage processing
20011 chemical research division manager	00011 chief - disaster management
22100 chemical research technician	11100 chief accountant
22100 chemical research technologist	20011 chief actuary
93101 chemical roaster	00011 chief administrative officer - government services
84101 chemical services operator - oil field services	00011 chief administrative officer - regional municipality
94121 chemical solutions operator - pulp and paper	72601 chief air traffic controller
21101 chemical spectroscopist	72020 chief aircraft maintenance engineer (AME)
22100 chemical technician - heavy water plant and nuclear generating station	32102 chief ambulance attendant
22100 chemical technician	21200 chief architect
22100 chemical technologist	50010 chief archivist
41210 chemical technology teacher	62101 chief buyer - retail or wholesale
84101 chemical truck operator - oil field services	62101 chief buyer
92011 chemical unit foreman/woman	62010 chief canvasser - retail
72405 chemical-processing machine builder	21320 chief chemical engineer
62100 chemicals sales representative	21300 chief civil engineer
21101 chemist - biomolecular assembly	50010 chief conservator
21101 chemist	
41200 chemistry professor - university	

00011 chief coroner	00012 chief financial officer (CFO) - financial, communications and other business services
22112 chief cruiser	00015 chief financial officer (CFO) - goods production, utilities, transportation and construction
50010 chief curator	00013 chief financial officer (CFO) - health, education, social and community services and membership organizations
43200 chief deputy sheriff	00014 chief financial officer (CFO) - trade, broadcasting and other services
40040 chief detective - police	00015 chief financial officer (CFO) - urban transit system
32122 chief diagnostic medical sonographer	93100 chief flotation operator
30010 chief dietitian	72600 chief flying instructor
53100 chief display officer - museum	64300 chief host/hostess - food services
00012 chief diversity officer - financial, communications and other business services	40040 chief inspector - police
00015 chief diversity officer - goods production, utilities, transport and construction	13100 chief invigilator
00013 chief diversity officer - health, education, social and community services and membership organizations	41100 chief justice
00014 chief diversity officer - trade, broadcasting and other services	00012 chief learning officer - financial, communications and other business services
22212 chief draftsman	00015 chief learning officer - goods production, utilities, transportation and construction
00011 chief electoral officer	00013 chief learning officer - health, education, social and community services and membership organizations
21310 chief electrical engineer	00014 chief learning officer - trade, broadcasting and other services
72011 chief electrician	50010 chief librarian
32123 chief electroencephalograph technologist	52119 chief lighting technician
21310 chief electronics engineer	72603 chief marine engineer - water transport
21310 chief engineer - electric power	21301 chief mechanical engineer
21310 chief engineer - radio and television broadcasting	00011 chief medical examiner
72603 chief engineer - water transport	00013 chief nursing officer - health, education, social and community services and membership organizations
22303 chief estimator - construction	30010 chief of anatomical pathology
00012 chief executive officer (CEO) - financial, communications and other business services	30010 chief of anesthesia
00015 chief executive officer (CEO) - goods production, utilities, transportation and construction	30010 chief of audiology and speech language pathology
00013 chief executive officer (CEO) - health, education, social and community services and membership organizations	30010 chief of biomedical engineering service
00015 chief executive officer (CEO) - manufacturing company	30010 chief of cardiology
00012 chief executive officer (CEO) - telephone company	30010 chief of dermatology
00014 chief executive officer (CEO) - trade, broadcasting and other services	30010 chief of diagnostic imaging
53100 chief exhibit officer - museum	30010 chief of diagnostic radiology
00012 chief financial officer (CFO) - advertising agency	30010 chief of emergency medicine
	30010 chief of endocrinology

30010 chief of gastro-enterology	32103 chief perfusionist
30010 chief of hematology	21332 chief petroleum engineer
30010 chief of housing activities	53110 chief photographer
30010 chief of infectious diseases	72600 chief pilot - air transport
30010 chief of laboratory medicine	72600 chief pilot
30010 chief of medical staff	92011 chief power engineer
30010 chief of medicine	53100 chief preparator - museums and art galleries
30010 chief of nephrology	53100 chief preparator
30010 chief of neurology	00015 chief privacy officer - construction, transportation, production and utilities
30010 chief of obstetrics and gynecology	00012 chief privacy officer - financial, communications and other business services
30010 chief of occupational therapy	00011 chief privacy officer - government services
30010 chief of operating area	00013 chief privacy officer - health, education, social and community services and membership organizations
30010 chief of ophthalmology	00014 chief privacy officer - trade, broadcasting and other services
30010 chief of pathology	21320 chief process engineer
30010 chief of pediatrics	32121 chief radiographer
30010 chief of pharmacy	30010 chief radiology technologist
30010 chief of physiotherapy	32121 chief radiotherapy technologist
40040 chief of police	72604 chief rail traffic controller
13101 chief of property management	32103 chief respiratory technologist
40019 chief of protocol	10011 chief safety officer - occupational health and safety
30010 chief of psychiatry	22112 chief scaler
30010 chief of psychology	62029 chief security guard
30010 chief of radiation oncology	43200 chief sheriff
30010 chief of respirology	52119 chief stage electrician
30010 chief of rheumatology	92011 chief stationary engineer
30010 chief of staff - hospital	00011 chief statistician - government services
30010 chief of surgery	64311 chief steward - ship
30010 chief of urology	92011 chief substation operator
00015 chief operating officer - airline	40021 chief superintendent - schools
00012 chief operating officer - engineering firm	40040 chief superintendent
00012 chief operating officer - financial, communications and other business services	00012 chief sustainability officer - financial, communications and other business services
00015 chief operating officer - goods production, utilities, transportation and construction	00015 chief sustainability officer - goods production, transportation and utilities
00013 chief operating officer - health, education, social and community services and membership organizations	00013 chief sustainability officer - health, education, social and community services and membership organizations
00014 chief operating officer - trade, broadcasting and other services	
93101 chief operator - chemical processing	
93100 chief operator - zinc pressure leach	
31303 chief orthoptist	

00014 chief sustainability officer - trade, broadcasting and other services	64100 children's wear sales clerk
14101 chief telephone operator	64100 children's wear salesperson - retail
72604 chief train dispatcher	94110 chiller operator - chemical processing
65200 chief wine steward	94110 chiller tender - chemical processing
41301 child and family counsellor	95106 chilling worker - food and beverage processing
41301 child and youth counsellor	72320 chimney bricklayer
42201 child and youth worker	65311 chimney cleaner
43100 child care attendant - elementary school	72320 chimney repair bricklayer
41403 child care licensing officer	72320 chimney repair stonemason
44100 child care live-in caregiver	65311 chimney sweep
44100 child care provider - private home	64100 china and crystal salesperson - retail
42202 child care worker - daycare	32200 Chinese medicine doctor
42202 child care worker assistant	32200 Chinese medicine herbalist
44100 child caregiver - private home	32200 Chinese medicine practitioner
41404 child health care programs planning officer	95103 chip bin attendant - wood processing
42201 child life specialist	95103 chip dump operator - wood processing
44100 child minder	94120 chip reclaim operator - sawmill
31200 child psychologist	94129 chip screen tender - wood processing
43109 child safety educator	95103 chip silo attendant - wood processing
31100 child specialist	95103 chip storage attendant - wood processing
41403 child welfare policy analyst	94129 chip-mixing machine tender - wood processing
40010 child welfare regional manager - government services	94120 Chip-N-Saw operator - sawmill
40030 child welfare services administrator	95101 chipper - metal products manufacturing
40010 child welfare services manager - government services	94129 chipper operator
41300 child welfare social worker	95101 chipper-grinder - metal products manufacturing
42201 child welfare worker	95101 chipper-grinder
40030 child-care centre administrator	83110 chipping machine operator - logging
40030 child-care centre director	83110 chipping machine operator
41403 child-care programs planning officer	31209 chiropodist
41210 child-care service teacher - college level	33109 chiropractic aide
41210 child-care service teacher	33109 chiropractic assistant
41403 child-care services liaison officer	33109 chiropractic health assistant
42201 child-care worker (except day care)	33109 chiropractic office assistant
41300 children's aid investigator	33109 chiropractor aide
40030 children's aid society director	31201 chiropractor
64100 children's clothing sales clerk	95101 chisel grinder - metal products manufacturing
41301 children's counsellor	93101 chlor-alkali plant cell room operator
44100 children's guardian	93101 chlorination plant operator
51100 children's services librarian	92011 chlorine plant foreman/woman
	93101 chlorine plant operator
	92012 chocolate candy processing foreman/woman

94140 chocolate chips maker	65312 church caretaker
94140 chocolate coater - food and beverage processing	51122 church organist
94140 chocolate crumbs maker	13110 church secretary
92012 chocolate factory foreman/woman	42204 church worker
94140 chocolate machine moulder	72501 churn drill operator - water well drilling
63202 chocolate maker	75110 churn drill operator helper - water well
95106 chocolate processing helper	83100 chute blaster - underground mining
94140 chocolate refiner	83100 chute blaster
92012 chocolate refining foreman/woman	84100 chute gate operator - underground mining
94140 chocolate temperer	84100 chute loader - underground mining
51121 choir director	84100 chute operator - underground mining
51121 choir leader	85110 chute puller
51121 choirmaster	94140 cider maker
85120 choke setter - logging	94140 cider plant worker
94201 choke winder - electronic equipment manufacturing	95106 cigar bander
85120 chokerman/woman - logging	95106 cigar brander
85120 chokerman/woman	94140 cigar bunch maker
94130 chopping machine tender	94140 cigar buncher
51121 choral conductor	94140 cigar dryer
51121 choral director	94140 cigar filler mixer and shredder
51120 choreographer	94143 cigar grader
51122 chorister	94140 cigar maker
53120 chorus dancer	94140 cigar patcher
51121 chorus master	95106 cigar wrapper
42204 Christian Science nurse - non-medical	94219 cigarette case maker
42204 Christian science practitioner	94140 cigarette cork tipper
42204 Christian science worker	94140 cigarette filter machine tender
80021 Christmas tree farm operator	92012 cigarette grader foreman/woman
85103 Christmas tree shearer	94143 cigarette grader
85103 Christmas tree trimmer	94219 cigarette holder maker
94213 chromium plater	92012 cigarette inspector foreman/woman
51113 chronicler	94140 cigarette machine tender
94140 chub sausage machine tender	94140 cigarette maker operator
94141 chuck cap puller - meat packing plant	94140 cigarette maker
94124 chucking and boring machine operator - woodworking	95106 cigarette packer
94124 chucking machine operator - woodworking	94140 cigarette roller
94106 chucking machine set-up operator	94140 cigarette stamper
53200 chuckwagon driver	94143 cigarette tester
53200 chuckwagon racer - stampede	94140 cigarette tipper
	65109 cigarette vendor
	95106 cigar-wrapping machine tender

94103 cinder block machine operator - concrete products	00010 city councilman/woman
72320 cinder block mason	51110 city editor
72320 cinder block setter	00011 city hall clerk
72500 cinder crane operator	00011 city manager
51120 cinematographer	40010 city medical officer of health - government services
21210 cipher expert	21202 city planner - land use
94201 circuit board assembler	21202 city planner
94202 circuit breaker assembler	41101 city solicitor
94202 circuit breaker assembly tester	00011 city superintendent
94203 circuit breaker fitter - industrial electrical equipment	21203 city surveyor
72422 circuit breaker mechanic	31102 civil aviation medical officer
21310 circuit design engineer	22212 civil draftsman
22310 circuit designer - railway	13100 civil emergency measures officer
75201 circular distributor	21300 civil engineer project manager
94131 circular knitter	21300 civil engineer
94131 circular knitting machine knitter	22300 civil engineering design technologist
72999 circular saw filer	20010 civil engineering manager
94103 circular saw operator - concrete, clay and stone products	41200 civil engineering professor - university
94120 circular saw operator - sawmill	21300 civil engineering project manager
94124 circular saw operator - woodworking	22300 civil engineering studies technologist
94120 circular saw operator	22300 civil engineering technician
31301 circulating nurse	22300 civil engineering technologist
14300 circulation assistant	21300 civil environmental engineer
14300 circulation clerk - library	21300 civil inspection engineer
10022 circulation manager	41101 civil lawyer
53121 circus artist	21300 civil pipeline engineer
53121 circus performer	21300 civil structural engineer
53111 circus rigger	73200 cladder
52114 circus ringmaster	95100 cladding assembler - primary metal processing
12104 citizen services officer (CSO) - government services	41101 claim attorney
42200 citizenship judge	11100 claims accountant
41403 citizenship officer	12104 claims adjudication officer - employment insurance
43203 citizenship registration examiner	12104 claims adjudicator - employment insurance
94140 citrus juice extractor	12201 claims adjuster - insurance
00011 city administrator	12011 claims adjusters supervisor
00010 city alderman	40010 claims and benefits control chief - employment insurance
41101 city attorney	12201 claims approver - insurance
00010 city councillor	14201 claims clerk - insurance
	14202 claims collector

12201 claims consultant	95100 classifier helper - primary metal and mineral products processing
12201 claims examiner - insurance	94100 classifier operator
12201 claims examiner	43100 classroom assistant - primary and secondary school
12201 claims investigator - insurance	94103 clay dry press operator
12201 claims investigator	94103 clay insulator builder - clay products
11200 claims manager - compensation and benefits	53122 clay modeller
13100 claims officer	94103 clay pipe bender
43203 claims processing officer - immigration	92010 clay preparation foreman/woman
12201 claims representative - insurance	94103 clay press operator
12201 claims representative	95100 clay press worker
12011 claims service supervisor	95100 clay products finisher
65229 clairvoyant	94104 clay products grader
85102 clam digger	94103 clay products machine operator
83121 clam dredge operator	92010 clay products manufacturing foreman/woman
83121 clam fisherman/woman	94103 clay products moulder
94142 clam shucker - fish and seafood processing	94103 clay products polisher
94142 clam steamer - fish and seafood processing	92010 clay shop foreman/woman
94211 clamp carrier	94103 clay structure moulder and installer
95109 clamp remover - wood products manufacturing	94103 clay temperer - clay products
94151 clamper - camera and platemaking	94104 clay tile grader - mineral products processing
75110 clamper - construction	92010 clay, glass and stone furnace and kiln operations foreman/woman
94203 clamper, transformer assembly coils	92010 clay, glass and stone furnace and kiln operators supervisor
94124 clamping machine tender - woodworking	94103 clayware driller
94142 clam-shucking machine tender - fish and seafood processing	94103 clayware turner
94140 clarifying equipment tender - food and beverage processing	94103 claywork moulder
53120 classical dance instructor	65320 cleaner - laundry and dry cleaning
53120 classical dancer	65320 cleaner and presser - laundry and dry cleaning
41220 classical languages secondary school teacher	62024 cleaner supervisor
41200 classics professor - university	65310 cleaner
10011 classification and compensation chief	94140 cleaning and classifying operator - tobacco processing
14102 classification clerk - human resources	62024 cleaning and maintenance supervisor
14100 classification clerk	94110 cleaning compounds mixer
41311 classification counsellor - corrections	65310 cleaning lady
11200 classification officer - human resources	65320 cleaning machine operator - laundry and dry cleaning
11200 classification policy adviser	65310 cleaning man/woman
11200 classification specialist	65109 cleaning products salesperson - door-to-door sales
64101 classified ad salesperson	
14301 classified advertising clerk	
51100 classifier - library	

00014 cleaning service general manager	31112 clinical audiologist
64101 cleaning services sales representative	21399 clinical biomedical engineer
62024 cleaning supervisor	21101 clinical chemist
65310 clean-up crew worker	41301 clinical counsellor
94124 clean-up sander - woodworking	12111 clinical data coordinator
72999 clearance diver	31121 clinical dietitian
84111 clearing saw operator - forestry	32120 clinical genetics technologist
94124 cleat notcher - woodworking	32209 clinical hypnotherapist
41311 clemency officer - corrections	31100 clinical immunologist
41302 clergyman/woman	31100 clinical immunology and allergy specialist
14100 clerical assistant	33109 clinical laboratory helper
12010 clerical supervisor	33101 clinical laboratory technician
14201 clerk - financial sector	32120 clinical laboratory technologist
40019 Clerk - Legislative Assembly	31301 clinical nurse specialist
42200 clerk of probate	31301 clinical nurse
14103 clerk of proceedings - courts	31121 clinical nutritionist
14103 clerk of process - courts	31203 clinical occupational therapist
53202 clerk of scales - racetrack	31203 clinical occupational therapy specialist
40019 clerk of the committee - Legislative Assembly	31303 clinical orthoptist
53202 clerk of the course - harness racing	31100 clinical pathologist
53202 clerk of the course - horseback racing	32103 clinical perfusion clinical instructor
53202 clerk of the course - racetrack	32103 clinical perfusion supervisor
00011 clerk of the House of Commons	32103 clinical perfusionist
40019 Clerk of the Legislative Assembly	31120 clinical pharmacist
00011 Clerk of the Privy Council	31100 clinical pharmacologist
14101 clerk switchboard operator	31202 clinical physical therapist
12011 clerks supervisor - bank or financial institution	31202 clinical physiotherapist
14100 clerk-stenographer	31200 clinical psychologist
44101 client care attendant - home care	21110 clinical research associate
11201 client group supervisor	21110 clinical research program manager
64409 client service clerk	21110 clinical research project manager
64312 client service representative - airline	21110 clinical research trials coordinator
64313 client service representative - bus line	30010 clinical services manager
22221 client support representative - systems	95109 clip-loading machine feeder
22214 climate data processor	94129 clipper operator - wood processing
22214 climate service technician	94130 clipping machine tender
22214 climatological technician	14301 clipping marker
21103 climatologist	65329 cloakroom attendant
72500 climbing crane operator	94219 clock and timer movement automated line assembler
33109 clinic assistant - medical	94219 clock and watch assembler
31301 clinic nurse	

92024 clock and watch assembly foreman/woman	94133 cloth inspector
94219 clock and watch assembly inspector	95109 cloth layer - garment manufacturing
92024 clock and watch assembly repairers foreman/woman	94133 cloth measurer
92024 clock and watch assembly repairers supervisor	94132 cloth mender
92024 clock and watch assembly supervisor	94130 cloth mercerizer operator
94219 clock and watch dial installer	94130 cloth neutralizer
94219 clock and watch finisher	95105 cloth offbearer
94219 clock and watch hairspring truer	94130 cloth printer
92024 clock and watch inspection foreman/woman	94131 cloth ribber
94219 clock and watch movements tester	94133 cloth sampler
94219 clock assembler	94130 cloth shade maker
94219 clock assembly adjuster	94130 cloth shader
94219 clock balance wheel assembler	94130 cloth shrinker
94219 clock finisher	94133 cloth sorter
94219 clock hairspring calibrator	94130 cloth steamer
94219 clock hairspring maker	94130 cloth stretcher-dryer tender
94219 clock part die casting assembler	94133 cloth tester
62202 clock repairer	95105 cloth turner
62202 clock repairman/woman	94130 cloth washer - textile manufacturing
64100 clock shop clerk	94131 cloth weaver
94219 clock spring assembler	95105 cloth winder
94219 clock staker	94130 cloth-bleaching range tender
94219 clockmaker - manufacturing	95105 cloth-cutting machine operator - fabric products manufacturing
62202 clockmaker	94130 cloth-doubling machine operator
22114 cloning technician - cannabis	94130 cloth-dyeing range tender
12110 closed captioner	65320 clothes presser - laundry and dry cleaning
22311 closed circuit television installer	94130 cloth-finishing range operator
22233 closed circuit TV sewer inspector	62101 clothing buyer
94132 closer - sewing	95105 clothing cutter - clothing manufacturing
94132 closer sewing machine operator	41210 clothing design teacher
95109 cloth baler - textiles	53123 clothing designer
94130 cloth bleacher	90010 clothing factory manager
95105 cloth carrier	94133 clothing inspector
95105 cloth cutter - fabric products manufacturing	65320 clothing ironer - laundry and dry cleaning
94130 cloth dryer	92015 clothing manufacturing foreman/woman
94130 cloth dyer	95109 clothing plant labourer
94133 cloth examiner	10012 clothing purchasing director
94130 cloth finisher	10012 clothing purchasing manager
94133 cloth grader	64100 clothing salesperson - retail
95109 cloth hand cutter	64100 clothing salesperson

60020 clothing store manager	75101 coal loader-unloader
94133 cloth-measuring machine tender	14404 coal mine car dispatcher
94130 cloth-neutralizing and cloth-rinsing machine operator	82020 coal mine foreman/woman
95105 cloth-printing machine helper	83100 coal miner
94130 cloth-printing machine tender	21322 coal preparation consulting engineer
94130 cloth-printing roller changer	85110 coal sampler
94130 cloth-processing range tender	94100 coal screener
21231 cloud administrator	94100 coal separator
20012 cloud architect manager	93101 coal tar distiller
21231 cloud architect	94100 coal washer
21232 cloud developer	75101 coal wheeler
21231 cloud engineer	92010 coal-and-coke crushing and grinding foreman/woman
20012 cloud engineering manager	75101 coal-moving equipment operator
21231 cloud infrastructure engineer	94100 coarse salt equipment operator
21231 cloud operations engineer	72603 Coast Guard vessel chief engineer
20012 cloud operations manager	72602 Coast Guard vessel chief officer
21222 cloud service management specialist	72602 Coast Guard vessel commanding officer
20012 cloud services manager	72603 Coast Guard vessel first watchkeeping engineer
20012 cloud solutions architect manager	72602 Coast Guard vessel first watchkeeping officer
53121 clown	72603 Coast Guard vessel marine engineer officer
65200 club car attendant	72602 Coast Guard vessel navigation officer
65211 clubhouse attendant	72603 Coast Guard vessel second engineer
62029 clubhouse attendants supervisor	72602 Coast Guard vessel second officer
94204 clutch assembler	72603 Coast Guard vessel second watchkeeping engineer
94204 clutch inspector	72602 Coast Guard vessel second watchkeeping officer
94204 clutch preassembler	72603 Coast Guard vessel senior engineer
94204 clutch rebuilder	72603 Coast Guard vessel third engineer
94204 coach assembler - bus assembly	72602 Coast Guard vessel third officer
53201 coach	72603 Coast Guard vessel third watchkeeping engineer
94100 coal breaker	72602 Coast Guard vessel third watchkeeping officer
75101 coal conveyor operator - surface mining	72602 Coast Guard vessel watchkeeping officer
75101 coal conveyor operator	21300 coastal engineer
75101 coal dumper	65329 coat and hat checker
72420 coal furnace installer	94205 coater - electrical equipment manufacturing
72420 coal furnace installer-mechanic	94122 coater-laminator - paper products
93101 coal gas exhaust operator	92011 coating and calendering worker foreman/woman - chemical processing
21102 coal geologist	94130 coating and embossing unit operator - textile manufacturing
75101 coal handler	
84100 coal hauler - underground mining	
73300 coal hauler (except underground mining)	

94110 coating compounds mixer - chemical processing	94140 coffee roaster
94213 coating equipment operator - metal plating	92012 coffee roasting foreman/woman
94213 coating equipment operator	95106 coffee-blending machine feeder
95102 coating machine feeder - chemical processing	94210 coffin and casket fitter
95104 coating machine feeder - plastic products manufacturing	94202 coil adjuster - electrical equipment manufacturing
95104 coating machine feeder - rubber products manufacturing	94201 coil assembler - electronic equipment manufacturing
95103 coating machine helper	94203 coil assembler - industrial electrical equipment
94110 coating machine operator - chemical processing	95100 coil bander - primary metal processing
94205 coating machine operator - electrical equipment manufacturing	94203 coil builder - industrial electrical equipment
94213 coating machine operator - industrial painting and coating	72422 coil connector repairer
94130 coating machine operator - textile manufacturing	94202 coil finisher - electrical equipment manufacturing
94110 coating machine tender - chemical processing	94203 coil former - industrial electrical equipment
94213 coating machine tender - product manufacturing	94201 coil inspector - electronic equipment manufacturing
94130 coating machine tender - textile manufacturing	94107 coil machine operator
94213 coating oven tender - manufacturing	94203 coil maker - industrial electrical equipment
94140 coating pan operator - food and beverage processing	94203 coil shaper - industrial electrical equipment
92014 coating room foreman/woman - pulp and paper	94213 coil spring dipper
94213 coating tank dipper	95101 coil spring grinder - metal products manufacturing
21101 coatings chemist	94107 coil spring machine tender
63220 cobbler	94202 coil taper - electrical equipment manufacturing
65200 cocktail waiter/waitress	72422 coil winder and repairer
95106 cocoa bean cleaner	92021 coil winding foreman/woman - electronics manufacturing
95106 cocoa bean press-mill helper	84101 coiled tubing operator - oil field services
95106 cocoa bean roaster helper	94107 coiler - metal products manufacturing
94140 cocoa bean roaster	94100 coiler operator - primary metal processing
94140 cocoa bean-shelling machine tender	94107 coiling machine operator - metal products manufacturing
94140 cocoa butter filterer	94107 coil-rewind machine tender
94140 cocoa mill operator	94201 coil-winding machine operator - electronic equipment manufacturing
95106 cocoa powder mixer	94203 coil-winding machine setter - industrial electrical equipment
94140 cocoa-nib grinder	94202 coil-winding machine tender - automatic electrical equipment
14110 coding clerk - statistics	60020 coin dealer
94205 coding machine tender - electrical equipment manufacturing	65329 coin laundry attendant
94140 coffee blender	94110 coke by-products pump operator - chemical processing
94140 coffee grinder	
94202 coffee maker assembler	

94100 coke by-products pump operator - primary metal processing	12104 collection agent - government services
94100 coke calciner operator	14202 collection agent (except taxation)
94100 coke grinder	70021 collection and delivery operations manager - postal service
94104 coke inspector - primary metal processing	10021 collection centre manager
95100 coke loader - primary metal processing	14202 collection clerk
94100 coke oven door operator	12011 collection clerks supervisor
95100 coke oven heater helper	13111 collection legal assistant
94100 coke oven heater	10021 collection manager - bank or trust company
94100 coke oven operator	10021 collection manager
95100 coke oven standpipe attendant	12104 collection officer - taxation
95100 coke oven tar chaser	14202 collection officer (except taxation)
92010 coke ovens foreman/woman	42200 collection paralegal
93100 coke plant by-products operator	12011 collection supervisor
94104 coke sampler and tester - primary metal processing	74205 collection truck driver - public works
94100 coke screen tender	12104 collection unit head - government services
92010 coke screening foreman/woman - mineral and metal processing	51102 collections archivist
92010 coke screening foreman/woman	10010 collections department manager
94100 coke-screen and coke-blender tender	14202 collections investigation officer
94105 cold drawn operator - metal forging	11200 collective agreement negotiator
62200 cold foods chef	12104 collector of taxes
95100 cold mill feeder - primary metal processing	14202 collector
93100 cold mill operator - primary metal processing	00013 college chancellor
94105 cold press operator - metal forging	41320 college counsellor
94124 cold press tender - woodworking	40020 college director - post-secondary education
95100 cold roll catcher - primary metal processing	41210 college instructor
95100 cold rolling mill feeder - primary metal processing	41201 college laboratory assistant
94100 cold steel roller - steel production	41210 college lecturer
94100 cold steel rolling mill operator	41210 college of applied arts and technology instructor
14112 cold-composition typographer	41210 college of applied arts and technology teacher
75211 cold-storage checker - transport	00013 college president
60040 cold-storage manager	40021 college principal - secondary level
14112 cold-typesetting typographer	40020 college registrar
94219 collar and belt turner	41210 college teacher
94152 collating machine operator - printing	41201 college teaching assistant
95109 collator tender - printing	72411 collision repair technician
95109 collator-inserter tender - printing	40042 colonel
14101 collect call operator - telephone system	94150 colour and large copier operator
64101 collection agency sales representative	52120 colour artist - cartoons
	52121 colour consultant - home decorating
	94150 colour copier operator

94151 colour correction scanning machine operator	94130 combining and drawing machine tender - textile manufacturing
94151 colour edition preparer - printing	53121 comedian
94153 colour film analyzer - photographic processing	53121 comic
94133 colour grader - textiles	40042 commander
94110 colour grinder tender - chemical processing	40040 commanding officer - police
94110 colour matcher - chemical processing	72602 commanding officer - water transport
94133 colour matcher - textiles	51113 commentator
94130 colour mixer - textile manufacturing	41402 commerce officer
94150 colour photocopier operator	41220 commerce teacher - secondary school
94150 colour photocopy operator	60010 commercial accounts manager
94201 colour picture tube assembler	64101 commercial agent - wholesale
94151 colour printer-technician - photographic processing	75119 commercial air conditioning mechanic helper
94151 colour scanner operator - printing	72402 commercial air conditioning mechanic
94151 colour separation assistant - scanning	72600 commercial airline pilot
94151 colour separation camera operator - printing	40011 commercial analysis director - government services
94151 colour separation camera operator	62100 commercial and industrial equipment and supplies sales representative - technical wholesale
94151 colour separation electronic scanning machine operator	64101 commercial and industrial equipment and supplies sales representative - wholesale (non-technical)
94151 colour separation operator	52114 commercial announcer
52113 colour timer - video	41210 commercial art instructor
94110 colourant weigher and mixer - chemical processing	41210 commercial art teacher
94151 colour-editing terminal operator - printing	52120 commercial artist
94130 colourer tender - hide and pelt processing	10021 commercial attaché
52120 colourist - cartoons	72421 commercial bakery appliance technician
94130 colourist - textile manufacturing	63102 commercial banking accounts officer
93101 column operator - chemical processing	10021 commercial banking manager
51113 columnist	73112 commercial building painter
72400 comb fixer - textile manufacturing	13101 commercial building rental agent
94219 comb maker	70010 commercial construction manager
72400 comb setter - textile manufacturing	73112 commercial construction painter
43204 combat engineer	52120 commercial design artist
94130 combed sliver dyer - textile manufacturing	52120 commercial designer
94130 comber - textile manufacturing	70021 commercial development manager - postal and courier services
72205 combination man/woman - telecommunications	41402 commercial development officer - government
72106 combination welder	72999 commercial diver
84120 combine operator	22212 commercial draftsman
32120 combined laboratory and x-ray technician	73300 commercial driver
32120 combined laboratory and x-ray technologist	
95103 combiner machine helper	
94121 combiner machine operator - paper mill	

72421 commercial foodservice appliance technician	73300 commercial vehicle operator
72999 commercial free-diver	64312 commissary agent - airline
72421 commercial laundry appliance technician	64311 commissary attendant - air transport
13111 commercial law administrative assistant	65200 commissary waiter/waitress
42200 commercial law clerk	10020 commission brokers manager - investments
13111 commercial law legal assistant	53202 commission steward - horse racing
41101 commercial law notary	62029 commissionaire supervisor
42200 commercial law paralegal	64410 commissionaire
13111 commercial law secretary	21203 commissioned land surveyor
41101 commercial lawyer	64100 commissioned salesperson - retail
10020 commercial lines account manager	00011 commissioner - government services
10021 commercial mortgages accounts manager	42200 commissioner of affidavits
10021 commercial mortgages manager	00011 commissioner of inquiries - government services
10022 commercial network development manager	00011 commissioner of inquiries
53110 commercial photographer	42200 commissioner of marriages
72600 commercial pilot	12100 committee clerk
73401 commercial press operator	10020 commodities trading manager
13101 commercial property manager	11103 commodity broker
63101 commercial real estate agent	11103 commodity trader
63101 commercial real estate salesperson	40042 commodore
72402 commercial refrigeration mechanic	32109 communication aide - medical
94202 commercial refrigerator assembler	32109 communication assistant - medical
41402 commercial research analyst	12012 communication clerks supervisor
64101 commercial salesperson - wholesale	52120 communication designer
72999 commercial scuba diver	32109 communication disorders assistant
62029 commercial security officers supervisor	32109 communication disorders instructor
94132 commercial sewing machine operator	72205 communication electrician - network craft
73200 commercial sign erector	72205 communication electrician apprentice - network craft
73200 commercial sign installer	62100 communication equipment sales representative
72999 commercial skin diver	72204 communication line technician
41210 commercial subjects teacher - vocational institute	11202 communication officer (except emergency services)
72410 commercial trailer mechanic	42101 communication service firefighter
72410 commercial trailer technician	20012 communication systems design manager
43202 commercial transport inspector	72205 communication systems technician
72410 commercial transport vehicle mechanic	72204 communication technician - construction
73300 commercial truck driver	11202 communications adviser
12202 commercial underwriter - insurance	11202 communications consultant
41210 commercial vehicle driver instructor	10022 communications director - sales and marketing
41210 commercial vehicle driving instructor	10022 communications director
43202 commercial vehicle enforcement officer	

72204 communications electrician - construction craft	31112 community audiologist
72205 communications electrician - telecommunications	42201 community centre coordinator
94201 communications equipment assembler	40030 community centre director
92021 communications equipment assembly foreman/woman - electronics manufacturing	40030 community centre manager
92021 communications equipment assembly supervisor - electronic equipment manufacturing	42201 community centre worker
22313 communications equipment repairer - avionics	40020 community college dean
53100 communications equipment restoration technician - museum	41210 community college instructor
92021 communications equipment testing supervisor - electronic equipment manufacturing	00013 community college president
92021 communications equipment testing supervisor - electronics manufacturing	40020 community college registrar
11202 communications expert	41210 community college teacher
72011 communications foreman/woman	42201 community counsellor - social services
10022 communications manager - public relations	32111 community dental hygienist
10030 communications manager - telecommunications	41402 community development consultant
10022 communications manager	42201 community development worker
14404 communications officer - emergency services	31121 community dietitian
11202 communications officer (except emergency services)	41402 community economic development consultant
41400 communications policy researcher	40011 community economic development director - government services
21100 communications research scientist	41402 community economic development officer
13100 communications service coordinator	31301 community health nurse
14404 communications specialist dispatcher	31100 community health physician
11202 communications specialist	33101 community health technician - medical laboratory
41210 communications teacher - college level	11202 community information officer
22310 communications technologist	51114 community interpreter
32109 communicative disorders assistant	42201 community liaison worker
32109 communicative disorders instructor	31100 community medicine physician
21220 communicator research operator - Canadian Armed Forces	31100 community medicine specialist
42201 community and social services worker	41301 community mental health counsellor
21202 community and urban planner	42201 community mental health worker
42201 community animator	53100 community museum technician
72204 community antenna television (CATV) installation technician	31121 community nutritionist
72204 community antenna television (CATV) maintenance technician	31203 community occupational therapist
72205 community antenna television (CATV) service installation technician	42201 community organization worker
40030 community arts coordinator	41403 community organizer
	31120 community pharmacist
	21202 community planner
	40010 community planning director - government services
	41210 community planning teacher - college level
	42100 community police officer
	41403 community policing program consultant

31203 community practice occupational therapist	75119 compassman/woman - land surveying
31102 community preventive medicine physician	64409 compensation agent
40030 community programs director	11200 compensation and benefits coordinator
41406 community recreation and leisure consultant	11200 compensation and classification analyst
41406 community recreation and leisure counsellor	11200 compensation consultant
41406 community recreation coordinator	10011 compensation director
21202 community recreation planner	10011 compensation manager
41406 community recreational and leisure programs consultant	11200 compensation officer
41406 community recreational and leisure programs counsellor	11200 compensation research analyst
40010 community rehabilitation manager - government services	11200 compensation researcher-analyst
42201 community rehabilitation worker	00012 compensation vice-president - financial, communications and other business services
10022 community relations director	00015 compensation vice-president - goods production, utilities, transport and construction
42100 community relations officer - police	00013 compensation vice-president - health, education, social and community services and membership organizations
40021 community school principal	00014 compensation vice-president - trade, broadcasting and other services
42201 community service worker	53202 competitive sports judge
40030 community services director	53200 competitor - chess
42100 community services officer - police	53200 competitor - gambling
42201 community services officer - social services	14301 compiler
41403 community social development officer	72205 complaint service technician - telecommunications
31112 community speech-language pathologist	64409 complaints adjuster
42201 community worker	64409 complaints clerk - customer service
41210 community-based trainer	64409 complaints clerk - telephone system
94203 commutator assembler - industrial electrical equipment	64409 complaints specialist - customer service
94203 commutator assembler	22233 compliance inspector - buildings
94202 compact disc assembler	94201 component inserting machine operator
94212 compact disc inspector - plastic products manufacturing	94201 component inspector - electronic equipment manufacturing
94219 compact disc matrix inspector	94201 components assembler - electronic equipment manufacturing
94201 compact disc player assembler	51121 composer
94201 compact disc player inspector and tester	72022 composing foreman/woman - printing
64100 compact disc sales clerk	14112 composing machine operator - typesetting
31103 companion animal veterinarian	14301 composing room proofreader
44101 companion	72022 composing room supervisor - printing
75200 company chauffeur	94212 composite material laminator
31102 company physician	72404 composite repair technician - aircraft
41210 company trainer	93200 composite technician - aircraft assembly
65109 comparison shopper	
94219 compass assembler	

94219 composite technician - boat assembly	20012 computer development division head
94200 composite technician - motor vehicle manufacturing	40012 computer education director
73113 composition floor layer	21311 computer engineer (except software)
94110 composition mixer - chemical processing	21311 computer engineer
73110 composition roofer	21311 computer engineering project manager
52111 compositor - animation	22311 computer equipment installer
52111 compositor - film	14111 computer equipment operator
14112 compositor - typesetting	22311 computer equipment repairer
72022 compositors foreman/woman - printing	62100 computer equipment sales specialist
72022 compositors supervisor - printing	22311 computer equipment technician - household and business equipment
14112 compositor-typographer	20012 computer facility manager
90011 compost facility manager	22311 computer field service technician
92011 compost facility supervisor	21232 computer game developer
94110 compounder - chemical processing	21232 computer game programmer
92013 compounding foreman/woman - rubber and plastic manufacturing	52111 computer graphics design technician
94219 compressed air and gas regulator assembler	52111 computer graphics operator
72400 compressed gas plant maintenance mechanic	52120 computer graphics specialist
95102 compressed gas plant worker	52111 computer graphics technician
22100 compressed gases tester	21311 computer hardware engineer
94111 compression moulder - plastic manufacturing	20010 computer hardware engineering manager
92013 compression moulding foreman/woman - rubber and products manufacturing	22310 computer hardware technologist
72405 compressor fitter	22221 computer help desk representative - systems
92011 compressor station foreman/woman	22221 computer help desk supervisor
90011 compressor station manager	22310 computer inspector-tester
93101 compressor station operator - pipelines	21321 computer integrated manufacturing (CIM) engineer
00011 comptroller general - government services	20012 computer legacy systems manager
00011 comptroller general of Canada	20012 computer manager
10010 comptroller	22220 computer master console operator
21222 computer analyst	22220 computer network technician
20012 computer and related services manager	22220 computer network technicians' supervisor
52120 computer animator	20012 computer networks manager
20012 computer application development manager	94106 computer numerical control (CNC) lathe operator - metal machining
21232 computer application programmer	94106 computer numerical control (CNC) machining tool operator
21231 computer applications engineer	72100 computer numerical control (CNC) machinist
20012 computer applications manager	22302 computer numerical control (CNC) Mastercam programmer
11100 computer audit specialist	94106 computer numerical control (CNC) profile mill operator
22310 computer communications technician	22302 computer numerical control (CNC) programmer
21222 computer consultant	
20012 computer department coordinator	

94124 computer numerically controlled (CNC) band saw operator	20012 computer systems manager
94105 computer numerically controlled (CNC) brake press operator	21231 computer systems platform engineer - software
94105 computer numerically controlled (CNC) brake press set-up operator	22220 computer tape librarian
94106 computer numerically controlled (CNC) machine set-up operator - metal machining	22221 computer technician
94106 computer numerically controlled (CNC) machining centre operator	40020 computer technology school director
22302 computer numerically controlled (CNC) technologist	41220 computer technology teacher - secondary school
94124 computer numerically controlled (CNC) woodworking machine tool operator	21231 computer telecommunications software specialist
22302 computer numerically controlled coordinate measuring machine (CNC/CMM) programmer	21311 computer telecommunications specialist
22220 computer operations supervisor	14111 computer terminal operator
14112 computer photocompositor	41210 computer trainer
14112 computer phototypesetter	41210 computer training instructor
60020 computer products dealer - retail	41210 computer training representative
60020 computer products store manager	14112 computer typesetter
21230 computer programmer	22212 computer-aided design (CAD) specialist - drafting
41210 computer programming instructor - college level	22212 computer-aided design (CAD) technologist
20012 computer programs manager	22212 computer-aided design and drafting (CADD) technologist
22311 computer repair technician	22302 computer-aided design/computer-aided manufacturing, numerical control (CAD/CAM NC) programmer
64100 computer salesperson - retail	22212 computer-aided drafting (CAD) technician
41200 computer science professor - university	22212 computer-assisted design and drafting (CADD) operator
41210 computer science teacher - college level	22302 computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer
51100 computer search librarian	22212 computer-assisted drafting (CAD) draftsman - printed circuit boards
22311 computer service technician	41210 computer-assisted drafting (CAD) instructor
64101 computer services sales representative	22212 computer-assisted drafting (CAD) operator
21222 computer simulations analyst	22212 computer-assisted drafting (CAD) technician
20012 computer software design manager	22212 computer-assisted electromechanical design draftsman
21231 computer software engineer	94151 computer-assisted letterer-engraver
62100 computer software sales representative	72100 computer-assisted machinist
20012 computer system operations manager	41210 computer-based trainer
62100 computer system sales representative	20012 computerized information systems manager
21222 computer systems analyst	94124 computerized panel saw tender - woodworking
21221 computer systems business analyst	94124 computerized panel saw tender
21222 computer systems development coordinator	20012 computerized technical information manager
20012 computer systems development manager	00012 computing services company president
21311 computer systems engineer	72400 concentrating plant mechanic
20012 computer systems integration manager	

93100 concentrator control room operator	75110 concrete mixer operator helper - highway construction
92010 concentrator foreman/woman - primary metal and mineral products processing	94103 concrete mixer-caster
52120 concept artist	94103 concrete moulder
51122 concert singer	94103 concrete operator - dry cast
60020 concession holder	94103 concrete operator - wet cast
60020 concession manager	73100 concrete patcher-finisher
94140 conche machine tender	75110 concrete paver operator helper
11200 conciliation officer - employee relations	72021 concrete paving foreman/woman
11200 conciliator - labour	75110 concrete paving labourer
11200 conciliator	94103 concrete pipe machine tender
72014 concrete and cement finishers foreman/woman	94103 concrete plant operator
72014 concrete and cement finishing contractor	94103 concrete pole maker - concrete products manufacturing
94100 concrete batch plant operator - cement manufacturing	94103 concrete pole moulder - concrete products manufacturing
94103 concrete block machine operator	73100 concrete polisher
94103 concrete block maker	75110 concrete pourer - construction
75110 concrete block pourer	73100 concrete product finisher
72320 concrete block setter	92010 concrete products foreman/woman
75110 concrete breaker	94104 concrete products inspector
94103 concrete burial vault maker	94103 concrete products machine operator
21300 concrete engineer	94103 concrete products moulder
73100 concrete finisher apprentice	64101 concrete products salesperson - wholesale
75110 concrete finisher helper	94104 concrete products tester
73100 concrete finisher	75110 concrete pump operator
72014 concrete finishers foreman/woman	94103 concrete saw tender
72014 concrete finishing foreman/woman	94103 concrete sawyer
94103 concrete fittings maker	73100 concrete smoother-finisher
75110 concrete float pourer	94103 concrete spin caster
73100 concrete floor finisher	73400 concrete spreader operator - heavy equipment
72013 concrete form builders foreman/woman - carpentry	75110 concrete spreader operator
75110 concrete former helper	22300 concrete technician
72310 concrete forms carpenter	94103 concrete vault maker
75110 concrete gun operator	75110 concrete waterproofer - construction
94103 concrete hydraulic press operator	73400 concrete-grooving machine operator
73100 concrete mason	72021 concrete-laying gang foreman/woman
94103 concrete mixer caster	72021 concrete-paving labour gang foreman/woman
75110 concrete mixer helper	73400 concrete-paving machine operator
94103 concrete mixer operator - concrete manufacturing	94103 concrete-spinning machine operator
75110 concrete mixer operator - construction	94100 condenser setter - primary metal processing

94201 condenser winder - electronic equipment manufacturing	22112 conservation technician - forestry
94130 conditioner tender - textile manufacturing	53100 conservation technician - museums and art galleries
73311 conductor - railway yard	51101 conservator - museum
73311 conductor - road freight	94201 console assembler - electronic equipment manufacturing
73311 conductor - switching yard	93100 console operator - cement manufacturing
51121 conductor	94140 console operator - food and beverage processing
72203 conduit installer - electric power systems	42100 constable
94140 cone and wafer machine tender	12100 constituency aid
94201 cone assembler - electronic equipment manufacturing	12100 constituency assistant
94122 cone former - paper converting	72200 construction and maintenance electrician
94140 cone maker - food and beverage processing	70010 construction assistant manager
94100 cone tender	73402 construction blaster
94122 cone winder - paper converting	72103 construction boilermaker
94130 cone winder - textile manufacturing	63200 construction camp cook
95106 confection labourer - food and beverage processing	65312 construction campsite attendant
94140 confection syrup maker	72310 construction carpenter
94140 confectionery cooker	12102 construction contract administrator
60020 confectionery department manager - retail	22303 construction cost consultant
92012 confectionery foreman/woman	22303 construction cost estimator
60020 confectionery manager	75110 construction craft labourer
64100 confectionery sales clerk	72500 construction crane operator
12103 conference and meeting planner	73402 construction driller
70012 conference centre manager	72200 construction electrician apprentice
12103 conference coordinator	75110 construction electrician helper
10029 conference development manager	72200 construction electrician
11201 conference facilitator	72011 construction electricians and repairers foreman/woman
51114 conference interpreter	72011 construction electricians foreman/woman
12103 conference organizer	72011 construction electricians supervisor
12103 conference planner	21300 construction engineer
10029 conference services manager	22300 construction engineering technician
12103 conference services officer	75119 construction equipment mechanic helper
94106 connecting rod borer	72401 construction equipment mechanic
94202 connector assembler - electrical equipment manufacturing	73400 construction equipment operator
51114 consecutive interpreter	72401 construction equipment repairman/woman
53100 conservation and restoration technician	62100 construction equipment sales representative
53100 conservation area interpreter	22303 construction estimator
50010 conservation director	70010 construction expediter
22113 conservation officer	22233 construction field inspector

72021 construction gang foreman/woman	72204 construction technician - cable television
70010 construction general contractor	72310 construction technician - Canadian Armed Forces
00015 construction general manager	22300 construction technician - civil engineering
70010 construction general superintendent	72204 construction technician - telecommunications
75110 construction helper	22300 construction technician
22233 construction inspector and tester	22300 construction technologist
22233 construction inspector supervisor	75110 construction trades helper
22233 construction inspector	84100 construction worker - mines
72010 construction ironwork contractor	75110 construction worker
75110 construction labourer	00011 consul
72203 construction lineman/woman - electric power systems	82021 consultant - gas well drilling
72203 construction lineman/woman - electrical power line	82021 consultant - oil and gas drilling
92023 construction machinery assembly foreman/woman	31121 consultant dietitian
70010 construction manager	31301 consultant nurse
62100 construction material sales representative	31121 consultant nutritionist
72400 construction millwright	31202 consultant physical therapist
70010 construction operations manager	31202 consultant physiotherapist
73112 construction painter	21210 consulting actuary
72014 construction painters foreman/woman	21112 consulting agrologist
72014 construction painters supervisor	21200 consulting architect
14301 construction permits clerk	21300 consulting civil engineer
14402 construction progress report clerk	21111 consulting forester
70010 construction project coordinator	21102 consulting geologist
21300 construction project engineer	21102 consulting geophysicist
70010 construction project manager	21321 consulting industrial engineer
70010 construction project superintendent	21301 consulting mechanical engineer
22300 construction requirements writer	21330 consulting mining engineer
22233 construction safety officer	21210 consulting pension actuary
13201 construction schedule coordinator	41401 consumer advisor - economics
70010 construction senior project manager	41403 consumer advisor
72102 construction sheet metal worker	22231 consumer affairs inspector
72021 construction site foreman/woman	10021 consumer credit management trainee
70010 construction site manager	63102 consumer credit officer
70010 construction site superintendent	10021 consumer credit services manager trainee
70010 construction special project manager	40030 consumer information director
22300 construction specifications writer	63102 consumer loans officer
70010 construction superintendent	22211 consumer products designer
82020 construction supervisor - underground mining and quarrying	64101 consumer sales representative
	64409 contact centre agent - customer service
	10029 contact centre manager

62023 contact centre supervisor	53121 contortionist
32100 contact lens dispenser	94124 contour sander operator - woodworking
32100 contact lens fitter	94103 contour-grinding machine operator - concrete, clay and stone products
32100 contact lens practitioner	12102 contract administrator
32100 contact lens technician	12102 contract claims examiner
94151 contact printer	14201 contract clerk - financial sector
22111 contagious animal disease prevention inspector	42200 contract clerk - law
31301 contagious disease transmission prevention nurse	14301 contract clerk
22211 container designer	12010 contract clerks supervisor
90010 container manufacturing manager	41101 contract counsel
51101 contemporary art curator	10012 contract director
51101 contemporary art museum curator	12102 contract management officer
52120 content creator - graphic design	10012 contract manager
51111 content creator - writing	12102 contract negotiator
52120 content director	12102 contract specialist
52120 content strategist	82030 contractor - agricultural service
51111 content writer (except technical)	72013 contractor-carpenter
51112 content writer (technical)	72014 contractor-floor coverer
33102 continuing care assistant	72014 contractor-glazier
53111 continuity person - motion pictures and broadcasting	72014 contractor-plasterer
73400 continuous bucket excavator operator	72014 contractor-roofer (except metal roofs)
93100 continuous casting machine operator - primary metal processing	22303 contractors estimator
93100 continuous casting operator - primary metal processing	12102 contracts officer
94121 continuous digester operator - pulp and paper	13110 contracts secretary
94100 continuous dressing operator	51110 contributing editor
94130 continuous dyeing machine operator - textile manufacturing	21101 control chemist
94130 continuous felt dryer operator - textile manufacturing	14201 control clerk - financial sector
94213 continuous galvanizing line operator	14200 control clerk - hotel and restaurant
94152 continuous glue machine operator - printing	94203 control panel assembler - industrial electrical equipment
83100 continuous mining machine operator	94203 control panel assembler
94112 continuous mixer operator - rubber products manufacturing	93101 control panel operator - chemical processing
94130 continuous press tender - textile manufacturing	94203 control panel technician - industrial electrical equipment
93101 continuous process chief operator	22310 control panels tester
94121 continuous process cook - pulp and paper	51110 control room editor - broadcasting
92011 continuous process foreman/woman - chemical processing	93100 control room furnace operator - smelter
	92100 control room operator - electrical power systems
	94140 control room operator - food and beverage processing

84101 control room operator - offshore drilling	95100 conveyor labourer - primary metal and mineral products processing
93100 control room operator - primary metal processing	94201 conveyor line worker - electronic equipment manufacturing
93102 control room operator - pulp and paper	75101 conveyor operator - material handling (except underground mines)
92100 control room operator trainee - electrical power systems	95100 conveyor operator - primary metal and mineral products processing
52112 control room technician - broadcasting	84100 conveyor operator - underground mining
21310 control systems engineer	94140 conveyor oven operator - food and beverage processing
22310 control systems tester	72400 conveyor repairer
22310 control technician - electrical and electronics	75101 conveyor tender - material handling (except underground mines)
74200 control tower operator - railway	94140 conveyor tender - tobacco processing
10010 controller - financial services	95109 conveyor washer tender
00012 controller - financial, communications and other business services	94219 conveyor wire belt builder
93101 controller - oil	84100 conveyorman/woman - underground mining
92024 controlling and recording instruments assembly foreman/woman	43201 convict guard
22310 controls technician - electrical and electronics	64410 convoy guard
65100 convenience store cashier	63200 cook - Canadian Armed Forces
64100 convenience store clerk	94121 cook - pulp and paper
60020 convenience store manager	94140 cook tank operator - food and beverage processing
12103 convention and special events planner	63200 cook
70012 convention centre manager	94110 cooker - chemical processing
12103 convention coordinator	94143 cookie and cracker tester
12103 convention planner	60040 cooking school manager
12103 convention planning services officer	93102 cooking systems operator - pulp and paper
92100 conversion substation operator - electrical power systems	41221 cooking teacher - elementary school
92010 converter foreman/woman - primary metal and mineral products processing	41220 cooking teacher - secondary school
94200 convertible top assembler - motor vehicle manufacturing	94121 cook's first helper - pulp and paper
42200 conveyance clerk	65201 cook's helper
75101 conveyor belt attendant	95107 cooler operator - fish processing
92013 conveyor belt foreman/woman - rubber manufacturing	94212 cooler shell assembler - plastic products manufacturing
75101 conveyor belt operator (except underground mines)	94140 cooler tender - tobacco processing
75101 conveyor belt patroller-controller	94100 cooling bed operator - steel mill
94112 conveyor belt splicer - rubber products manufacturing	94140 cooling machine tender - food and beverage processing
95103 conveyor cleaner - pulp and paper	92100 cooling system operator
75101 conveyor console operator	94202 cooling unit assembler - electrical equipment manufacturing
	41320 co-op officer - schools

41320 co-op placement officer - school	51110 copy chief
41320 co-op program coordinator - school	14112 copy cutter
92024 cooper foreman/woman	51110 copy editor
94124 cooper header - woodworking	14301 copy holder
94124 cooper header operator - wood	94124 copy lathe tender
94124 cooper operator - woodworking	14112 copy marker - typesetting
94211 cooper	51110 copy preparer
94124 cooperage heading machine operator - woodworking	74102 copy runner - courier service
94124 cooperage heading sawyer	14112 copy stylist - typesetting
95109 cooperage labourer	14112 copy typist - typesetting
94124 cooperage setter-up - woodworking	94150 copy, staple and glue machine operator
94124 cooperage set-up man/woman - woodworking	51121 copyist - music
41220 cooperative education teacher	42200 copyright agent
41220 cooperative learning teacher	50011 copyright and royalties manager
94124 cooper's head-saw operator - woodworking	12012 copyright clearance supervisor
31300 coordinator of nursing services	14301 copyright clerk
41300 coordinator of social work	50011 copyright manager - publishing
10030 coordinator of technical services - telecommunications	51111 copywriter
94101 cope and drag pinlift operator - foundry	84110 cordwood cutter
72600 co-pilot - air transport	94203 core assembler - industrial electrical equipment
72600 co-pilot	94122 core cutter - paper converting
94100 copper billet piercer	94121 core cutter and reamer - pulp and paper
94100 copper billet piercing mill operator	94121 core cutter and reamer
94101 copper caster - foundry	85110 core cutter
94213 copper coater - metal plating	73402 core drill operator - construction, surface mining and quarrying
95100 copper dust-collector worker	83100 core driller - underground mining
94151 copper engraver - camera and platemaking	83100 core driller
94100 copper flotation operator	94101 core extruder - foundry
93100 copper melter	94104 core inspector - foundry
94100 copper ore slime treater	94129 core layer operator - wood processing
94151 copper photoengraver	94101 core machine operator - foundry
94213 copper plater	94122 core maker - paper converting
93100 copper refinery operator	95109 core moulder
94100 copper-briquetting machine operator	95109 core pipe extractor
53124 copperplate engraver - artisan	92014 core room foreman/woman - pulp and paper
94151 copperplate photoengraver	95100 core room labourer - foundry
72010 coppersmith foreman/woman	94101 core setter - foundry
72102 coppersmith	95100 core shop labourer - foundry
94153 copy camera operator - photographic processing	85110 core splitter
	94104 core tester - foundry

94122 core winder - paper converting	10022 corporate affairs manager
83100 core-drill operator - underground mining	51102 corporate archivist
83100 core-drill operator	10021 corporate banking centre manager
94129 core-laying machine tender - wood processing	00012 corporate banking vice-president
92010 coremaking foreman/woman - foundry	10010 corporate budgeting and analysis manager
92010 coremaking foreman/woman - mineral processing	62200 corporate chef
92014 coremaking foreman/woman - paper converting	00012 corporate controller - financial, communications and other business services
94101 coremaking machine operator - foundry	00015 corporate controller - goods production, utilities, transportation and construction
94101 core-sand-mixer - foundry	00013 corporate controller - health, education, social and community services and membership organizations
94122 core-winding machine operator - paper converting	00012 corporate controller - mortgage brokerage firm
83101 coring operator - oil field services	00014 corporate controller - trade, broadcasting and other services
72321 cork insulation installer	41101 corporate counsel
94219 corks and bottle caps inspector	11201 corporate development planning adviser
94140 corn chips cooker	13111 corporate finance legal assistant
94140 corn cooker - food and beverage processing	10010 corporate financing manager
94140 corn dough machine tender	64201 corporate image consultant
94140 corn flakes roller - food and beverage processing	42204 corporate intercessor
94140 corn germ preparer - food and beverage processing	11101 corporate investment adviser
94140 corn products presser - food and beverage processing	13111 corporate law administrative assistant
94140 corn products pressman/woman - food and beverage processing	42200 corporate law and litigation clerk
94140 corn products starch presser	42200 corporate law clerk
94140 corn products sugar crystallizer operator	13111 corporate law legal assistant
95106 corn starch neutralizer	13111 corporate law secretary
94140 corn sugar filter operator	41101 corporate notary (Quebec)
94140 corn sugar refinery operator	42200 corporate paralegal
94140 corn syrup cooler and decolourizer	72600 corporate pilot
94140 corn syrup maker	11201 corporate planner
95106 corn syrup processing labourer	40012 corporate policy manager - education
94219 corncob pipe assembler	13111 corporate records legal assistant
65100 corner store cashier	10010 corporate risk department manager
64100 corner store clerk	60010 corporate sales manager
51122 cornetist	12100 corporate secretary
31301 coronary intensive care nurse	42200 corporate securities law clerk
31301 coronary unit nurse	64410 corporate security officer
41310 coroner	10021 corporate services manager - banking, credit and investment

00012 corporate social responsibility vice-president - financial, communications and other business services	21322 corrosion engineer
00015 corporate social responsibility vice-president - goods production, utilities, transport and construction	94213 corrosion resistant metal sprayer
00013 corporate social responsibility vice-president - health, education, social and community services and membership organizations	22300 corrosion technician
00014 corporate social responsibility vice-president - trade, broadcasting and other services	22300 corrosion technologist
70020 corporate traffic manager - transportation	94103 corrugated asbestos board former
70020 corporate transportation manager	94122 corrugated box cutter - paper converting
10021 corporate trust services manager	94124 corrugated fastener driver - woodworking
21234 corporate Webmaster	94122 corrugating machine operator - paper converting
41101 corporation lawyer	94122 corrugating machine operator-cutter - paper converting
42200 corporation paralegal	94122 corrugator operator - paper converting
82030 corral boss	94122 corrugator operator-cutter - paper converting
43201 correctional facility guard	94105 corrugator sheet metal operator
40030 correctional institution director	95103 corrugator-operator helper
43201 correctional institution guard	31101 cosmetic surgeon
43201 correctional institution head matron	63211 cosmetician
43201 correctional officer	94110 cosmetics and perfume maker
43201 correctional officers supervisor	65109 cosmetics demonstrator - retail
42201 correctional program officer	92011 cosmetics processing foreman/woman
40030 correctional rehabilitation society director	65109 cosmetics salesperson - home sales
43201 correctional service officer	64100 cosmetics salesperson - retail
41403 correctional service policy consultant	63211 cosmetologist
40030 correctional services director	21100 cosmic ray physicist
43201 correctional services unit supervisor	21100 cosmologist
40030 correctional treatment and training director	21109 cosmonaut
43201 corrections officer	11100 cost accountant
10022 correspondence and public inquiries manager	14200 cost accounting clerk
14301 correspondence clerk	11100 cost accounting supervisor
12012 correspondence clerks supervisor	50011 cost and royalties manager - publishing
14100 correspondence filing clerk	14200 cost clerk
14301 correspondence review clerk	21321 cost engineer
41210 correspondence school instructor	22303 cost estimator - construction
41210 correspondence school tutor	11101 cost financial analyst
41210 correspondence teacher - college level	12011 cost supervisor
41221 correspondence teacher - elementary school	14200 costing clerk
41220 correspondence teacher - secondary school	53123 costume designer
51113 correspondent	52119 costume maker
	52119 costume supervisor
	52119 costumer - motion pictures, broadcasting and performing arts
	52119 costumer

52119 costumes coordinator	21203 country surveyor
52119 costumier	41101 county attorney
94140 cottage cheese maker	00011 county clerk
94130 cotton ball machine tender	14103 county court clerk
95109 cotton roll machine tender	41100 county court judge
95100 Cottrell precipitator helper - primary metal processing	10019 county court registrar
94100 Cottrell tender	21300 county engineer
00011 council secretary - government services	41100 county judge
00010 councillor	74200 coupler - railway yard
41101 counsel	41301 couples therapist
41320 counselling intern	74102 courier service driver
41301 counselling program supervisor	70021 courier service manager
40030 counselling services director	74102 courier service parcels deliverer
40030 counselling services manager	72025 courier service supervisor
41301 counselling therapist	64101 courier services sales representative
41320 counsellor for Aboriginal students	74102 courier
41301 counsellor for persons who are intellectually impaired	41405 course coordinator - college
41101 counsellor-at-law	41405 course coordinator - secondary school
41101 counsellor-lawyer	41405 course coordinator - university
64321 count room attendant - casino	14100 course coordinator
94219 counter and upper tacker - footwear manufacturing	14103 court administrator
64401 counter clerk - mail and postal services	42200 court and tribunal agent
64100 counter clerk - retail	43200 court bailiff
64313 counter clerk (except airline)	14103 court clerk supervisor
64409 counter enquiries clerk	14103 court clerk
64313 counter sales agent - railway	14103 court clerk-crier
64313 counter sales agent (except airline)	14103 court deputy administrator
64313 counter service agent - railway	43200 court enforcement officer
64313 counter service agent (except airline)	51114 court interpreter
64312 counter services agent - airline	14103 court liaison
41310 counterfeit and forgery section detective	40042 court martial judge
65201 counterperson - food services	12110 court monitor
94106 countersinker - metal machining	10019 court of appeal registrar
73200 countertop installer	41100 Court of Queen's Bench justice
64321 counting attendant - casino	14103 court officer
82031 country club grounds supervisor	12110 court recorder
70012 country grain elevator facility manager	10019 court registrar
70012 country grain elevator manager	12110 court reporter
60031 country inn operator	12012 court reporters supervisor
	41210 court reporting instructor
	14103 court services coordinator

10019 court services manager	72500 crane hoist operator
12110 court stenographer	75110 crane hooker
14103 court supervisor	22231 crane inspector
64409 courtesy desk clerk	94100 crane ladle pourer
14103 courtroom clerk	74203 crane oiler
14103 courtroom officer	72500 crane operator apprentice
53123 couturier - haute couture	72500 crane operator
52120 cover designer	72401 crane repairer
52120 cover page illustrator	72401 crane service technician
12104 coverage and interpretation officer - taxation	94200 crankshaft assembler - motor vehicle manufacturing
94219 covered button maker	42101 crash firefighter
94152 covering machine operator - printing	95109 crate bander
94130 covering-machine tender	95109 crate liner
85100 cowboy/cowgirl	95109 crate marker
80020 cow-calf operator	95109 crate packer
84120 cowhand	95109 crater - manufacturing
53200 coxswain	72500 crawler crane operator
94142 crab butcher - fish and seafood processing	75119 crawler track repairer helper
83121 crab fisherman/woman	74203 crawler track servicer
94142 crab steamer - fish and seafood processing	73400 crawler tractor operator
94130 crabber - textile manufacturing	95109 crayon cutter
94130 crabbing machine tender - textile manufacturing	94219 crayon making machine tender
94130 crabbing machine tender	95109 crayon moulder
94140 cracker and cookie machine operator	94140 cream cheese maker
94112 cracker operator - rubber products manufacturing	94143 cream grader
93101 cracking plant operator	22111 cream inspector
53124 craft instructor (except education)	95106 cream sampler - food and beverage processing
60040 craft school manager	94219 creaser - garment and fabric
53124 craft weaver	94122 creaser - paper converting
00013 crafts guild executive director	10022 creative services director
41221 crafts teacher - elementary school	11109 credit adjudicator
53124 craftsman/woman	11109 credit advisor
53124 craftsperson	11109 credit agency inspector
83110 crane and claw operator - logging	63102 credit analyst
74203 crane and dragline oiler and greaser	10021 credit and accounts manager
72500 crane and hoisting equipment operator	14202 credit and collection clerk
75110 crane chaser	10021 credit and collection department manager
72021 crane crew foreman/woman	10021 credit and collection manager
72405 crane fitter	12011 credit and collection supervisor
74203 crane greaser	14201 credit application clerk - financial sector

10021 credit approval and market development manager	22100 crime scene examiner
10021 credit area coordinator	42100 crime scene technician - police
14201 credit assessment clerk	14103 criminal court clerk
14201 credit authorization clerk	42200 criminal law clerk
64101 credit bureau sales representative	42200 criminal law paralegal
14100 credit card authorization clerk	41101 criminal lawyer
10021 credit card centre manager	14100 criminal records clerk
10021 credit card company operations manager	41409 criminologist
94152 credit card die-cutter operator - printing	41200 criminology professor - university
14201 credit clerk	94130 crimp setter
12011 credit clerks supervisor	94121 crimping head operator - papermaking
63102 credit investigation officer	94107 crimping machine feeder - wire products manufacturing
63102 credit investigator	94205 crimping machine tender - electrical equipment manufacturing
10021 credit manager	94219 crimping machine tender - leather products manufacturing
63102 credit officer	94130 crimping machine tender - textile manufacturing
14201 credit register clerk	41301 crisis counsellor
12011 credit service group leader	42201 crisis intervention worker
12011 credit supervisor	51113 critic
00012 credit union executive director	31100 critical care medicine physician
00012 credit union general manager	31100 critical care medicine specialist
10021 credit union manager	31301 critical care nurse
64400 credit union teller	31300 critical care nursing supervisor
11109 credit unions examiner	32102 critical care paramedic
95105 creeler - textile processing	94131 crochet machine operator
65329 cremator	94131 crocheting machine operator
65329 crematorium attendant	22111 crop certification inspector
60040 crematorium manager	82030 crop dusting service contractor
94122 creping machine operator - paper converting	85101 crop farm labourer - harvesting
95109 creping machine operator helper	80020 crop farmer
53123 crest designer	82030 crop harvesting service contractor
94213 crester	22110 crop production technician
72020 crew chief - aircraft maintenance	21110 crop scientist
14405 crew dispatcher	21112 crop specialist
22112 crew leader - forest fire suppression	94130 cropping machine tender - textile manufacturing
14405 crew scheduler - aeronautics	21110 crop-research scientist
14405 crew scheduler - railway transport	84120 cropsprayer machine operator
14405 crew scheduler - transportation	12013 cross dock supervisor
12013 crew schedulers supervisor	94112 cross head operator - rubber products manufacturing
75101 cribber - grain elevator	
42100 crime prevention constable	

94124 crosscut saw operator - woodworking	95102 crutcher operator helper
75211 crossing attendant - railway	21301 cryogenics engineer
75211 crossing gateman/woman - railway transport	21100 cryogenics physicist
45100 crossing guard	94100 cryolite recovery equipment operator
51111 crossword puzzle maker	22301 cryonics engineering technologist
64321 croupier - casino	21210 cryptanalyst
64321 croupier	21210 cryptoanalyst
32112 crown and bridge dental technician	21210 cryptographer
13100 Crown assets distribution officer	65229 crystal ball reader
41101 Crown Attorney	94201 crystal calibrator - electronic equipment manufacturing
41101 Crown corporation counsel	94201 crystal final tester - electronic equipment manufacturing
41101 Crown counsel	94201 crystal final tester
21111 Crown lands forester	94201 crystal finisher - electronic equipment manufacturing
41101 Crown prosecutor	94201 crystal frequency measurer - electronic equipment manufacturing
94124 croze machine operator - woodworking	94201 crystal grower
93100 crucible furnace operator	94201 crystal inspector - electronic equipment manufacturing
94100 crucible pourer	94201 crystal lapper
65210 cruise line passenger attendant	21100 crystal physicist
50012 cruise ship director	92021 crystal processing foreman/woman - electronics manufacturing
70020 cruise ship line manager	94201 crystal unit assembler
22112 cruiser	94201 crystal-dicing saw operator
22112 cruising technician - forestry	94110 crystallizer tender - chemical processing
94100 crusher and blender operator	94140 crystallizer tender - food and beverage processing
93100 crusher control room operator	94140 cube sugar machine tender - food and beverage processing
94103 crusher operator - stone products	85101 cucumber picker
94140 crusher operator - tobacco processing	95105 cuff-cutting machine tender
84100 crusher operator - underground mining	51113 culinary journalist
94100 crusher setter	22114 cultivation technician
94110 crusher tender - chemical processing	84120 cultivator operator
84100 crusherman/woman - underground mining	54100 cultural activities leader
92010 crushing and grinding operations foreman/woman - primary metal and mineral products processing	41409 cultural anthropologist
92010 crushing and grinding supervisor - primary metal and mineral products	00013 cultural association president
92011 crushing and grinding worker foreman/woman - chemicals and related materials	41409 cultural geographer
94100 crushing equipment operator	51114 cultural interpreter
94140 crushing machine tender - food and beverage processing	51114 cultural or international adaptation specialist
95100 crushing operations helper - mineral products processing	
94110 crutcher operator - chemical processing	

95100 cupola charger - primary metal and mineral processing	65320 curtain and drapery presser - laundry and dry cleaning
95100 cupola furnace helper	73200 curtain installer
94101 cupola furnace operator - foundry	94219 curtain rod assembler
93100 cupola furnace operator - primary metal processing	73111 curtain wall glazier
94103 cupola operator - concrete, clay and stone products	72105 curtain wall installation ironworker
75110 cupola spray reliner	94133 cushion and cover inspector
95100 cupola tapper	94133 cushion and furniture-coverings manufacturing inspector
41302 curate	95109 cushion cementer - shoe manufacturing
51101 curator	95109 cushion filler - furniture assembly
50010 curator-director - museum	95109 cushion stuffer - furniture assembly
53100 curatorial assistant	62024 custodian supervisor - cleaning services
94112 cure operator - rubber products manufacturing	65312 custodian
94112 cured tire repairer	62202 custom bracelet maker
94140 curing bin tender - food and beverage processing	62202 custom brooch maker
92013 curing foreman/woman - rubber manufacturing	82030 custom combine contractor
94112 curing machine operator - rubber products manufacturing	84120 custom combine operator
94112 curing man/woman - rubber products manufacturing	94124 custom cue maker and repairer
94112 curing press set-up operator - rubber products manufacturing	94124 custom cue maker and repairman/woman
94112 curing press tender - rubber products manufacturing	64100 custom drapery salesperson - retail
92012 curing room foreman/woman - tobacco processing	94203 custom electrical panel assembler
92013 curing supervisor - rubber products manufacturing	94140 custom feed miller - food and beverage processing
53200 curler	95106 custom feed miller helper
53202 curling judge	94140 custom feed preparer - food and beverage processing
65100 currency exchange cashier	72311 custom frame and mirror assembler
14200 currency sorter	64200 custom fur joiner
64400 current account representative - financial services	53124 custom furniture caner
62023 current accounts supervisor	64200 custom furrier
70020 current schedule planning manager - airline	94219 custom golf club maker
94203 current-transformer assembler	84120 custom harvest crewperson
94203 current-transformer coil winder	84120 custom harvester
41405 curriculum consultant	62202 custom jewellery moulder
41405 curriculum developer	62202 custom locket maker
41405 curriculum planner	94101 custom moulder - foundry
	72311 custom piano case maker
	94106 custom screw machine operator
	72102 custom sheet metal fabricator
	63220 custom shoemaker
	64200 custom tailor

60020 custom tailoring shop manager	14301 customs and excise clerk
63221 custom upholsterer	43203 customs appraiser
72311 custom wood furniture maker	43203 customs baggage inspector
72311 custom wooden desk maker	13200 customs broker
62023 customer accounts supervisor	12011 customs brokerage clerks supervisor
64409 customer information service clerk - insurance	13200 customs clearance agent
64409 customer information service representative - retail	14301 customs clerk
64409 customer relations clerk	12012 customs clerks supervisor
62022 customer relations supervisor - casino	43203 customs collector
64312 customer sales agent - airline	13200 customs consultant
64313 customer sales and service agent (except airline)	43203 customs examiner
64409 customer satisfaction representative	13200 customs house broker
64409 customer service adviser	13200 customs information broker
64312 customer service agent - airline	43203 customs inspection supervisor
64313 customer service agent - bus line	43203 customs inspector
64400 customer service agent - financial institution	43203 customs inspectors supervisor
64409 customer service agent	43203 customs investigator
64409 customer service assistant	10029 customs manager - business services
65100 customer service cashier	40011 customs manager - government services
64409 customer service clerk	43203 customs officer
62023 customer service clerks supervisor	13200 customs rater
64311 customer service director (CSD) - water transportation	94106 cutlery and tool etcher
60020 customer service manager - automobiles	94219 cutlery assembly inspector
60020 customer service manager - retail	94219 cutlery maker operator
64409 customer service monitor - telephone system	94219 cutlery maker
64409 customer service operator - telephone system	92024 cutlery manufacturing foreman/woman
64312 customer service representative - airline	94120 cut-off saw operator - sawmill
64313 customer service representative - bus line	94124 cut-off saw operator - woodworking
64409 customer service representative - call centre	95109 cut-out and marking machine tender - shoe manufacturing
64400 customer service representative - financial services	95105 cutter - leather products manufacturing
64409 customer service representative - insurance	84110 cutter - logging
62023 customer service representative supervisor	94141 cutter - meat packing plant
62023 customer service representatives supervisor - financial services	95103 cutter helper - pulp and paper
64100 customer service sales clerk	94103 cutter operator - concrete, clay and stone products
72014 customer service supervisor - housing construction	94219 cutter operator - other products manufacturing
62010 customer service supervisor - retail	94152 cutter operator - printing
62100 customer support representative - wholesale	92015 cutter supervisor - fabric, fur and leather products manufacturing
	94122 cutting and creasing press operator - paper converting

94130 cutting and printing machine set-up operator - textile manufacturing	94151 cylinder-impresser operator
92015 cutting department foreman/woman - fabric, fur and leather products manufacturing	94124 cylinder-sander feeder - woodworking
72400 cutting machine fixer - textile manufacturing	21110 cytochemist
95105 cutting machine operator - clothing manufacturing	21110 cytogeneticist
94152 cutting machine operator - printing	32120 cytogenetics technologist - medical laboratory
83100 cutting machine operator - underground mining	21110 cytologist
94152 cutting machine operator, books	21110 cytologist-microbiologist
94219 cutting machine tender - textile products manufacturing	32120 cytology technologist
92015 cutting room foreman/woman - fabric, fur and leather products manufacturing	
21220 cyber operator - Canadian Armed Forces	D
60030 cybercafé manager	94124 dado operator - woodworking
51120 cyber-choreographer	94124 dado saw operator - woodworking
41310 cybercrime investigator	21110 dairy bacteriologist
52120 cybergraphic designer	80020 dairy cattle breeder
51113 cyberjournalist	21101 dairy chemist
51113 cyberreporter	94143 dairy cream tester
21220 cybersecurity analyst	72400 dairy equipment repairer
21220 cybersecurity consultant	82030 dairy farm foreman/woman
20012 cybersecurity manager	85100 dairy farm labourer
21220 cybersecurity specialist	80020 dairy farm manager
51100 cybrarian	85100 dairy farm worker
53201 cycling coach	80020 dairy farmer
53200 cyclist	94143 dairy grader - food and beverage processing
94106 cylinder grinder - metal machining	85100 dairy hand
94204 cylinder head assembler	95106 dairy helper - food and beverage processing
94106 cylinder honer - metal machining	84120 dairy herdsperson
93102 cylinder machine operator - pulp and paper	94143 dairy moisture tester
94213 cylinder painter - industrial	21399 dairy plant engineer
94151 cylinder painter - printing	92012 dairy plant foreman/woman
94213 cylinder plater-grinder - metal processing	94140 dairy plant machine operator
94151 cylinder preparer - printing	90010 dairy plant manager
73401 cylinder press operator - printing	94143 dairy product tester - food and beverage processing
73401 cylinder press set-up operator	22111 dairy products inspector
73401 cylinder pressman/woman - printing	92012 dairy products processing foreman/woman
73401 cylinder printing press set-up operator	94140 dairy products specialty maker
94107 cylinder roll fabricator	22110 dairy products technician
94124 cylinder saw tender - woodworking	75201 dairy route salesman/woman
	95106 dairy sampler - food and beverage processing
	21110 dairy scientist

22110 dairy technologist	12010 data entry clerks supervisor
94143 dairy tester - food and beverage processing	14111 data entry operator
22233 dam construction inspector	12010 data entry supervisor
74204 damage prevention technician	14111 data entry verifier-operator
75110 dampproof helper	14111 data input clerk
21300 dams engineer	21223 data management specialist
50011 dance company director	21211 data miner
53120 dance instructor	21211 data mining analyst
53120 dance notator	21211 data modeler
60040 dance school manager	20012 data processing and systems analysis manager
53120 dance teacher	21222 data processing consultant
41301 dance therapist	14111 data processing control clerk
41301 dance therapists' supervisor	20012 data processing director
41301 dance therapy researcher	20012 data processing manager
52110 dance videographer	20012 data processing planning manager
41301 dance-movement therapist	21223 data processing specialist
41301 dance-movement therapy researcher	41220 data processing teacher - secondary school
53120 dancer	14111 data processing verifier
53120 dancing instructor	14111 data processor
21120 dangerous goods inspector - railway transport	21223 data quality analyst
73300 dangerous goods truck driver	21211 data scientist
21120 dangerous waste inspector	21223 data steward
83121 Danish seine fisherman/woman	21223 data warehouse analyst
41310 dark web detective	21223 database administrator (DBA)
94153 darkroom technician - photographic processing	21223 database analyst
94153 darkroom technician	21223 database architect
21223 data administrator	21223 database designer
21223 data analyst - informatics and systems	21223 database developer
21211 data analytics consultant	51100 database librarian
20012 data analytics manager	21223 database management supervisor - computer systems
21211 data analytics specialist	21223 database manager
21211 data architect	41210 data-processing teacher - college level
20012 data centre manager	65229 dating agency consultant
22220 data centre operator	65229 dating service consultant
21311 data communications specialist	54100 day camp counsellor - recreation
14111 data control clerk	54100 day camp leader
12010 data control supervisor	64314 day clerk - hotel
21223 data custodian	42202 daycare aide
21223 data dictionary administrator	42202 daycare attendant
21211 data engineer	42202 daycare coordinator
14111 data entry clerk	

42202 daycare helper	72014 decorating contractor
40010 day-care planning services director - government services	72014 decorating foreman/woman - construction
42202 daycare supervisor	92022 decorating foreman/woman - furniture and fixtures manufacturing
42202 daycare teacher	94103 decorating kiln operator - clay products
42202 daycare worker assistant	94103 decorating machine tender - clay products
42202 daycare worker	53122 decorations painter - visual arts
42204 deacon	53124 decorative engraver
42204 deaconess	94210 decorator - furniture finishing and refinishing
51114 deaf interpreter	72014 decorators foreman/woman
42203 deafblind intervenor	55109 deejay (DJ) - turntablist
60020 dealer - retail	72999 deep-sea diver
40020 dean - university or college	94124 defect trimmer - woodworking
40020 dean of adult education	41101 defence counsel
40020 dean of graduate studies	94141 dehairing machine dropper - meat packing plant
40020 dean of science	94130 dehairing machine operator - hide and pelt processing
40020 dean of student activities	82030 dehorning service contractor
40020 dean of technical and technological programs	94110 dehydrating press tender - chemical processing
14201 death benefits clerk	64100 deli counter clerk - food store
94129 debarker operator - wood processing	60020 deli manager - food store
63102 debt counsellor	64100 delicatessen clerk - retail
95109 deburrer - clock and watch manufacturing	60020 delicatessen department manager - retail
95101 deburrer - metal products manufacturing	64100 delicatessen meat salesperson - retail
94213 decal applier	62010 delicatessen supervisor - food store
94130 decating machine tender - textile manufacturing	83110 delimeter and buncher operator
41404 decision support analyst - health	83110 delimeter operator
41404 decision support specialist - health	75211 deliverer helper
73200 deck builder	14402 delivery checker
73200 deck installer	14400 delivery clerk
72602 deck officer - cadet	75201 delivery driver
72602 deck officer - water transport	72024 delivery drivers foreman/woman
75110 deck worker	72024 delivery drivers supervisor
94121 decker operator - pulp and paper	74102 delivery person - courier service
94121 decker tender - pulp and paper	62010 delivery person supervisor
94121 deckerman/woman - pulp and paper	31300 delivery room nursing supervisor
74201 deckhand - ships	75201 delivery salesperson
74201 deckhand	70021 delivery service manager - postal and courier services
84100 deckman/woman - underground mining	64401 delivery services clerk
94103 decorated products kilnman/woman - clay products	64101 delivery services sales agent
52121 decorating consultant	64101 delivery services sales representative

75211 delivery truck driver helper	14101 dental receptionist
75201 delivery truck driver	31110 dental surgeon
75211 delivery truck helper	32112 dental technician - Canadian Armed Forces
21210 demographer	32112 dental technician apprentice
72021 demolition contractor	33100 dental technician assistant
72500 demolition crane operator	32112 dental technician supervisor
53200 demolition driver	32112 dental technician
72021 demolition foreman/woman	32112 dental technologist
75110 demolition worker	32111 dental therapist
21112 demonstrator - Department of Agriculture	14101 dental treatment coordinator
65109 demonstrator - retail	31110 dentist
41210 denominational institute teacher	41200 dentistry professor - university
72411 dent remover and repairer - automobile	33100 denture bench moulder
33100 dental aide	33100 denture finisher
94100 dental amalgam processor	33100 denture framework finisher
41210 dental assistant program teacher - community college	32110 denture mechanic
33100 dental assistant	33100 denture packer
32112 dental ceramist	33100 denture setter
14201 dental claims clerk	32110 denture technician
33100 dental clinical assistant	32110 denture therapist
62100 dental equipment and supplies salesperson	33100 denture trimmer-polisher
73200 dental equipment installer-servicer	33100 denture wax pattern former
41404 dental health consultant	32110 denturist
30010 dental health services administrator	32110 denturologist
14101 dental hygiene coordinator	41210 department chairman/woman - college
32111 dental hygiene technician	41210 department chairman/woman - community college
41210 dental hygienist program teacher	41200 department chairman/woman - university
32111 dental hygienist technician	41210 department chairperson - college
32111 dental hygienist	41210 department chairperson - community college
94219 dental instrument assembler	41200 department chairperson - university
33100 dental laboratory assistant	41210 department head - college
33100 dental laboratory bench worker	41210 department head - community college
30010 dental laboratory managing supervisor	41210 department head - general and vocational college (CEGEP)
33100 dental laboratory technician assistant	41210 department head - institute of technology
32112 dental laboratory technician	41210 department head - private training institute
32110 dental mechanic apprentice	41210 department head - technical institute
32110 dental mechanic	41200 department head - university
32111 dental nurse	41210 department head - vocational institute
14101 dental office receptionist	60020 department manager - department store
32112 dental prosthesis maker	

60020 department manager - retail	00011 deputy provincial secretary - government services
64100 department store clerk	41407 deputy returning officer
64409 department store information clerk	43200 deputy sheriff
60020 department store manager	40021 deputy superintendent - schools
00014 department store president	63211 dermal therapist
62010 department store supervisor	31100 dermatologist
62010 department supervisor - retail	72400 derrick mechanic
11100 departmental accountant	84101 derrick worker - oil and gas drilling
41101 departmental solicitor	84101 derrickhand - offshore drilling
63211 depilator	84101 derrickhand - oil and gas drilling
95100 depiler helper - primary metal processing	84101 derrickhand
95100 depiler table leverman/woman - primary metal processing	84101 derrickman/woman - oil and gas drilling
14200 deposit clerk	84101 derrickman/woman
14405 depot clerk - transit system	21110 descriptive toxicologist
40040 deputy chief coroner	21320 design and development chemical engineer
00012 deputy chief executive officer - financial, communications and other business services	21310 design and development engineer - electrical and electronic systems
00015 deputy chief executive officer - goods production, utilities, transportation and construction	22212 design and drafting technologist
00013 deputy chief executive officer - health, education, social and community services and membership organizations	94152 design and lettering stamper - printing
00012 deputy chief executive officer - life insurance company	52111 design assistant - advertising production
00014 deputy chief executive officer (CEO) - trade, broadcasting and other services	62202 design cutter - jewellery
40040 deputy chief medical examiner	22212 design draftsman
40040 deputy chief of police	21301 design engineer - mechanical
41101 deputy city solicitor	64101 design sales representative - wholesale
40019 Deputy Clerk of the House of Commons	22212 design technician - drafting
40019 Deputy Clerk of the Legislative Assembly	22212 design technologist - drafting
00011 deputy commissioner - government services	13200 designated shipbroker
10019 deputy court registrar	52121 designer - interior design
40041 deputy fire chief	53123 designer - theatre
41100 deputy justice	51111 designer and script writer
10019 deputy land registrar	94210 desk assembler
50010 deputy librarian	92022 desk assembly foreman/woman - furniture and fixtures manufacturing
00011 deputy minister - government services	92022 desk assembly foreman/woman
00011 deputy minister	42100 desk officer - police
00011 deputy municipal clerk	94124 desk sander - woodworking
40040 deputy police chief	22221 deskside support technician
	14112 desktop compositor
	14112 desktop publishing (DTP) operator
	14112 desktop publishing (DTP) specialist
	12010 desktop publishing operators supervisor

12010 desktop publishing supervisor	22310 development technologist - telecommunications
12010 desktop publishing system supervisor	21110 developmental biologist
22221 desktop support analyst	21110 developmental geneticist
65201 dessert maker	42201 developmental service worker
65201 dessert preparer	94110 devulcanizer tender
93101 desulphurizer operator	94100 dewaterer tender - primary metal processing
93101 desulphurizing unit operator	94100 dewatering equipment operator
93200 detail assembler - aircraft assembly	94140 dextrine maker - food and beverage processing
22212 detail drafts person	31112 diagnostic audiologist
93200 detail inspector - aircraft assembly	32122 diagnostic cardiac sonographer
21230 detail programmer	32122 diagnostic echography technician
94124 detail shaper - woodworking	32121 diagnostic imaging technologist
22212 detailer - structural steel drafter	62100 diagnostic instrument sales representative
22212 detailer	32121 diagnostic medical radiation technologist
41310 detective - police	32122 diagnostic medical sonographer
10029 detective agency manager	32122 diagnostic medical sonography instructor
40040 detective inspector - police	32121 diagnostic radiography technologist
41310 detective sergeant - police	32121 diagnostic radiological technician
43201 detention attendant	32121 diagnostic radiological technologist
40030 detention centre director	31100 diagnostic radiologist
43201 detention guard	31100 diagnostic radiology specialist
42201 detention home worker	32121 diagnostic radiology technologist
94110 detergent and powdered soap screener-perfumer	72410 diagnostic technician - motor vehicles
92011 detergent and remover manufacturing foreman/woman	32122 diagnostic ultrasonography technician
21101 detergent chemist	32122 diagnostic ultrasound supervisor
94219 detonator and fuse assembler	32122 diagnostic ultrasound technician
94219 detonator assembler	32122 diagnostic ultrasound technologist - medical
94153 developer-printer machine tender	94219 dial marker
94153 developing machine operator - photographic processing	10030 dial plant manager - telecommunications
21231 development and operations (DevOps) engineer	10030 dial plant superintendent - telecommunications
43202 development control officer	51111 dialogue writer
41401 development economist	31301 dialysis nurse
21102 development geologist	32129 dialysis technician
93200 development mechanic - aircraft assembly	32129 dialysis technologist
83100 development miner	94103 diamond abrasive wheel maker
11202 development officer - fundraising	62202 diamond bruter
11202 development officer - university	62202 diamond cutter
42201 development service worker	73402 diamond drill operator - surface mining and quarrying
	83100 diamond driller - underground mining
	75110 diamond driller helper - surface mining

84100 diamond driller helper - underground mining	72101 die finisher
82020 diamond drilling foreman/woman	72101 die fitter
22101 diamond drilling technician	72101 die maker - jewellery
62202 diamond expert	72101 die maker
62202 diamond grader - jewellery manufacturing	72101 die mouldmaker
94102 diamond grinder operator - glass finishing	72101 die reamer
62202 diamond marker	72101 die repairer
62202 diamond polisher	72101 die repairman/woman
94100 diamond powder blender	72999 die setter
94103 diamond powder mixer - stone products	72101 die sinker - metalworking
72101 diamond saw maker	72101 die sinker
62202 diamond Sawyer	94150 die stamper - printing
62202 diamond selector - jewellery manufacturing	72101 diecast diemaker
62202 diamond setter	94101 die-casting machine operator
72101 diamond tool maker	94101 die-casting machine setter - foundry
94102 diamond wheel edger - glass finishing	94101 die-casting machine set-up man/woman - foundry
94103 diamond wheel moulder and finisher	94101 die-casting machine tender - foundry
83100 diamond-drill operator	94122 die-cutting machine operator - paper products
83100 diamond-drill runner - underground mining	94152 die-cutting or die-numbering press operator - printing
83100 diamond-point drill operator	94152 die-cutting platen press operator - printing
94122 diaper machine tender - paper converting	72106 dielectric welder
94122 diaper-folding machine tender - paper converting	72201 diesel electrician - railway
94219 dice maker	94204 diesel engine assembler
94212 dicer tender - plastic manufacturing	92023 diesel engine assembly foreman/woman
94212 dicing machine tender - plastic manufacturing	94204 diesel engine erector
73209 dictaphone repairer	72100 diesel engine machinist
73209 dictaphone servicer	72401 diesel engine mechanic - heavy equipment
12110 dictatypist	72401 diesel engine mechanic apprentice
53121 diction coach	72401 diesel engine mechanic
51110 dictionary editor	72401 diesel engine repairman/woman - railway
94201 die attacher - electronic equipment manufacturing	94204 diesel engine tester
95101 die blanking press operator helper - metal products manufacturing	21301 diesel engineer - design and research
92010 die casting foreman/woman - foundry	92100 diesel generating station operator - electrical power systems
92010 die casting supervisor	83100 diesel loaderman/woman - underground mining
95105 die cutter - fabric, fur and leather products manufacturing	73310 diesel locomotive engineer - railway
72101 die cutter - metalworking	72401 diesel locomotive repairman/woman
72101 die cutter	72401 diesel mechanic - heavy equipment
22301 die designer	72401 diesel mechanic apprentice
	75119 diesel mechanic helper

72401 diesel mechanic	72100 dimensional inspector - machine shop
92100 diesel plant operator - electrical power systems	94219 dinghy assembler
92100 diesel station operator	72411 dingman/woman - autobody
94106 diesinking machine set-up operator	65200 dining car steward
63200 diet kitchen cook	65200 dining car waiter/waitress
65201 dietary aide	60030 dining establishment managing supervisor
63200 dietary cook	65201 dining room assistant
32129 dietary technician	65201 dining room attendant
32129 dietary technologist	65200 dining room captain
31121 dietetic consultant	65100 dining room cashier
14100 dietetics office clerk - hospital	64300 dining room host/hostess
31121 dietician	60030 dining room manager
31121 dietitian	65200 dining room steward
31121 dietitian-nutritionist	53100 dinosaur museum interpreter
94204 differential assembler	53100 diorama maker - museums and art galleries
72100 differential gear testing machinist	53100 diorama technician
94140 diffuser operator - food and beverage processing	94205 dip and bake operator - electrical equipment manufacturing
94201 diffusion furnace operator - electronic equipment manufacturing	94213 dip tank attendant
94121 digester cook - pulp and paper	94129 dip tank tender - wood processing
94121 digester field operator	41407 diplomat
94110 digester operator - chemical processing	41409 diplomatic historian
94100 digester operator - primary metal and mineral processing	94213 dipper and coater - metal plating
94121 digester operator - pulp and paper	94213 dipper-baker
94121 digester tender - pulp and paper	95109 dipping labourer
75110 digger - construction	94112 dipping machine tender - rubber products manufacturing
11202 digital advertising specialist	94213 dipping tank operator
52120 digital animator - artist	94213 dipping tank tender
21310 digital circuit design engineer	94201 dip-soldering machine operator - electronic equipment manufacturing
22220 digital computer operator	72205 direct broadcast satellite (DBS) technician - cable television
52113 digital effects specialist	65109 direct distributor - retail
22310 digital electronics technician	11201 direct mail specialist
52111 digital graphic design technician	41210 direct sales instructor
11202 digital marketing consultant	65109 direct seller
11202 digital marketing coordinator	83101 directional driller - oil and gas drilling
11202 digital marketing project manager	82021 directional drilling consultant - oil and gas
94151 digital printing technician	83101 directional drilling operator - oil and gas drilling
53125 digitizer operator - textile, leather and fur products	83101 directional drilling operator
94124 dimension planer operator - woodworking	10010 director - financial services

51120 director - motion picture	30010 director of professional services - medical services
51120 director - motion pictures, broadcasting and performing arts	30010 director of psychology - health care
00011 director general - government services	40030 director of public welfare
00013 director general - health, education, social and community services and membership organizations	40019 director of public works
10010 director of accounting	20010 director of quality assurance engineering
40020 director of admissions - post-secondary education	20010 director of quality control engineering
20011 director of architecture	50012 director of recreation and sports
30010 director of audiology and speech language pathology	50012 director of recreation
30010 director of clinical medicine	40020 director of research - university or college
40030 director of counselling	20010 director of safety engineering
20012 director of data science	40021 director of school for the blind or deaf
10022 director of development - annual giving	40021 director of school for the hearing impaired
30010 director of dietetics	40021 director of school for the visually impaired
40021 director of education - correctional institution	40012 director of school services
40012 director of education - public administration	20012 director of software engineering
20010 director of engineering - manufacturing	50012 director of sports administration - government
20010 director of engineering research and development	50012 director of sports and leisure
20010 director of engineering	50012 director of sports and recreation
50012 director of fitness administration - government	40020 director of student affairs
40030 director of guidance services	40020 director of studies - college
30010 director of laboratory medicine	30010 director of surgery
50012 director of leisure and sports	10019 director of sustainability - real estate development
50012 director of leisure	90011 director of sustainability - waste management
70020 director of logistics - transportation	20011 director of sustainability
70012 director of maintenance	20012 director of technology management
20010 director of mechanical engineering	70020 director of traffic - transportation
80010 director of mining operations	70020 director of transportation
80010 director of mining	90011 director of waste management
30010 director of nursing - medical services	90011 director of water pollution control
30010 director of occupational therapy	10010 director-treasurer - financial services
40030 director of operations - housing department	14301 directory clerk
90010 director of operations - manufacturing	14301 directory compiler
70020 director of operations - transportation	64322 dirigible pilot
51120 director of photography	14201 disability benefits clerk - insurance
30010 director of physiotherapy	11200 disability case manager - human resources
10019 director of product sustainability	12201 disability claims examiner - insurance
	41301 disability consultant
	11200 disability management coordinator
	11200 disability management practitioner

11200 disability management professional	21310 displays and controls design engineer
10011 disability management program manager	75101 disposal worker - warehouse
11200 disability management specialist	93101 dissolver-precipitator
42201 disability management worker	41405 distance education program coordinator
41400 disaster emergency response planner	41405 distance education project officer
12201 disaster relief claims adjuster - insurance	41220 distance education teacher - secondary school
40019 disaster relief services coordinator	95102 distillation equipment helper - chemical processing
14200 disbursement clerk	95102 distillation equipment helper
94105 disc flanging operator - metal fabrication	93101 distillation equipment operator
52114 disc jockey (DJ) - broadcast	92011 distillation foreman/woman - chemical processing
94100 discharge door attendant	93101 distillation operator
11103 discount broker	94140 distilled liquors rectifier - food and beverage processing
14201 discount clerk - financial sector	94140 distilled liquors stillman/woman - food and beverage processing
53200 discuss thrower	95102 distiller helper - chemical processing
41201 discussion group leader - post-secondary teaching assistant	94110 distiller operator - soda ash processing
94103 dish maker - clay products	94140 distillery cooker - food and beverage processing
94202 dishwasher assembler	92012 distillery foreman/woman
73200 dishwasher installer	94140 distillery grinder operator
72421 dishwasher repairer	90010 distillery manager
65201 dishwasher	94140 distillery press operator
65201 dishwashing machine attendant	94140 distillery presser
94124 disk cutter - wood products	94140 distillery skimmer
94105 disk flange operator - metal fabrication	94140 distillery yeast maker - food and beverage processing
94105 disk flange operator	74204 distribution and maintenance worker - utilities
13201 dispatch logistician	13201 distribution and transport logistics technician
12013 dispatchers supervisor	70020 distribution and warehousing manager
33103 dispensary assistant	70012 distribution centre manager
31120 dispensary department supervisor - hospital	14400 distribution clerk
31112 dispensing audiologist	72203 distribution construction lineman
32100 dispensing optician student	92100 distribution control operator - electrical power systems
32100 dispensing optician	92100 distribution control operator
60020 dispensing opticians office manager	70020 distribution director
64101 display advertising sales representative	70020 distribution manager - logistics
94219 display balloon maker	60010 distribution manager - sales
62010 display design supervisor	90011 distribution network director - utilities
53123 display designer - museums and art galleries	12013 distribution officer
64100 display designer	70020 distribution operations manager - logistics
62010 display designers supervisor	
65210 display installer	
53100 display officer - museums and art galleries	

90011 distribution operations manager - utilities	94140 dividing machine tender - food and beverage processing
22310 distribution planning technologist	72999 diving contractor
70020 distribution services manager	72999 diving supervisor
12013 distribution supervisor	10019 division administrative manager
92100 distribution system dispatcher apprentice - electrical power systems	40041 division chief - fire department
92100 distribution system operator	11100 division controller - accounting
90011 distribution systems director - utilities	50010 division librarian
21112 district agricultural specialist	90011 division manager - petroleum distribution
21112 district agronomist	42100 divisional diving supervisor - police
41100 district and surrogate court judge	60010 divisional sales manager
41100 district court judge	94131 dobbie loom drawer-in
10019 district court registrar	94131 dobbie loom weaver
21300 district engineer	73200 dock builder-installer
40041 district fire chief	72310 dock carpenter
21111 district forester	72021 dock foreman/woman - marine cargo
72302 district gas serviceman/woman	75100 dock hand
22113 district inspector - fisheries	75100 dockerman/woman - marine cargo handling
40010 district manager - employment insurance	75101 dockman/woman - truck transport
10030 district manager - telecommunications	22113 dockside monitor - fisheries
40040 district police chief	22113 dockside observer - fisheries
70021 district post office director	75100 dockworker - marine cargo handling
64101 district sales representative - wholesale	75100 dockworker
40021 district school assistant superintendent	32200 doctor of acupuncture
40021 district school superintendent	32200 doctor of Chinese medicine
43200 district sheriff	31201 doctor of chiropractic (DC)
22113 district supervisor - fisheries	31110 doctor of dental surgery
63100 district supervisor - insurance office	31102 doctor of medicine (MD)
72205 districtman/woman - telecommunications	31209 doctor of naturopathic medicine
75110 ditch cleaner - construction	31209 doctor of naturopathy
22233 ditch construction inspector	31111 doctor of optometry (OD)
73400 ditcher operator - construction	32200 doctor of Oriental medicine
72021 ditching foreman/woman	31209 doctor of osteopathic medicine
73400 ditching machine operator	31209 doctor of osteopathy
53200 diver - olympic sport	31209 doctor of podiatric medicine (D.P.M.)
75119 diver helper	31209 doctor of podiatry
72999 diver	32200 doctor of traditional Chinese medicine
42100 diversity and race relations officer - police	31103 doctor of veterinary medicine
14201 dividend calculation clerk - financial sector	31301 doctor's office nurse
14201 dividend calculation clerk	14101 doctor's office receptionist
	12112 document management technician

53100 document restoration technician	72421 domestic window air conditioner mechanic
12112 document technician	72421 domestic window air conditioner repairer
14301 documentalist	63202 donut baker
13100 documentation and projects analyst	63202 donut maker
14301 documentation clerk	65201 donut shop attendant
51100 documentation librarian	65201 donut shop clerk
12112 documentation technician	65201 donut shop counter clerk
14100 documents clerk	94200 door adjuster - motor vehicle manufacturing
22100 documents examiner - applied chemistry	94200 door and deck lid adjuster - motor vehicle manufacturing
95105 doffer	92024 door and sash assembly foreman/woman
80020 dog breeder	94200 door assembler - motor vehicle manufacturing
43202 dog catcher	65329 door attendant (except hotel)
65220 dog groomer	94211 door finisher - wood products manufacturing
60040 dog grooming establishment manager	94200 door fitter - motor vehicle manufacturing
65220 dog handler	94200 door fitter
60040 dog kennel manager	75110 door frame installer
42100 dog master - police	94200 door hanger - motor vehicle manufacturing
65220 dog master trainer	73200 door installer
65220 dog master	94200 door paneler - motor vehicle manufacturing
65220 dog trainer	65210 door person - hotel
43202 dog warden	95109 door sander
64322 dogsledding guide	94124 door-hang machine operator - woodworking
94219 doll assembly repairer	65329 doorman/woman (except hotel)
94219 doll hairstylist	75201 door-to-door distributor
94219 doll maker - manufacturing	62010 door-to-door sales supervisor
53111 dolly operator - motion pictures and broadcasting	62010 door-to-door salesperson supervisor - retail
53111 dolly pusher - motion pictures and broadcasting	65109 door-to-door salesperson
72200 domestic and rural electrician	75110 dope machine operator - pipelines
80020 domestic animal breeder	53125 doper - fabric products
21110 domestic animal scientist	53125 doper and marker
00012 domestic banking operations vice-president	32121 dosimetrist
63200 domestic cook	94151 dot etcher - printing
44101 domestic helper	94151 dot etcher
65310 domestic housekeeper	94132 double needle sewing machine operator
65310 domestic maid - cleaning services	94132 double needle sewing machine stitcher
72421 domestic refrigerator repairer	94130 doubling machine operator - textile manufacturing
72421 domestic refrigerator servicer	94130 doubling machine tender - textile manufacturing
73209 domestic sewing machine mechanic	95106 dough feeder - food and beverage processing
94132 domestic sewing machine operator	94140 dough maker - food and beverage processing
73209 domestic sewing machine repairer	

95106 dough roller	22212 draftsman
95106 dough weigher	22212 draftspersons supervisor
94140 dough-kneading machine tender	94120 drag saw operator - sawmill
65201 doughnut shop attendant	72500 dragline crane operator
65201 doughnut shop clerk	74203 dragline oiler
65201 doughnut shop counter clerk	75110 dragline operator helper
44101 doula	74205 drain roto servicer - public works
94124 dovetail machine operator - woodworking	94103 drain tile auger machine operator - clay products
94124 dowel machine operator - woodworking	21300 drainage design engineer
94124 dowel machine set-up operator - woodworking	65311 drain-roto cleaner
94124 dowel machine tender	53121 drama actor
94124 dowel pointer - woodworking	53121 drama coach
94124 dowelling machine operator - woodworking	51113 drama critic
94124 dowelling machine set-up operator - woodworking	41200 drama professor - university
94124 dowelling machine tender - woodworking	53121 drama teacher - private or studio
94124 dowel-making machine operator - woodworking	41220 drama teacher - secondary school
94124 dowel-making machine set-up operator - woodworking	41301 drama therapist
94124 dowel-making machine tender - woodworking	41301 drama therapists' supervisor
72106 downhand welder - pipeline	41409 dramatic arts historian
83100 downhole loader - underground mining	53121 dramatic arts teacher - private or studio
83101 downhole tool operator - oil and gas drilling	53121 dramatic reader
83101 downhole tool operator	94133 draper
73400 dozer operator	64100 drapery and upholstery salesperson - retail
22212 drafter	65320 drapery cleaner - laundry and dry cleaning
22212 drafting checker	65320 drapery cleaner
22212 drafting clerk	73200 drapery hanger
22212 drafting design checker	94132 drapery header
22212 drafting group leader	94132 drapery heading maker
41210 drafting instructor - college level	73200 drapery installer
41210 drafting instructor	95109 drapery making labourer
22212 drafting office supervisor	94132 drapery sewer
22212 drafting supervisor	94210 drawer assembler
41210 drafting teacher - college level	94210 drawer fitter
41210 drafting teacher	95100 drawer helper - primary metal processing
22212 drafting technician	94131 drawer-in - textiles
22212 drafting technologist	94131 drawer-in helper - textiles
22212 drafting tracer	94219 drawing instrument assembler
22212 draftsman/woman	94102 drawing kiln operator - glass forming
22212 draftsman - computer-assisted design	94130 drawing machine tender - textile fibre
	94131 drawing-in machine operator - textiles

94131 drawing-in machine operator	94124 drill operator - woodworking
14100 drawings filing clerk	94106 drill press operator - metal machining
95109 drawstring inserter - garment manufacturing	94103 drill press operator - stone products
72602 dredge captain	94124 drill press operator - woodworking
72602 dredge commanding officer	94106 drill press set-up operator - metal machining
74201 dredge deckhand	94122 drill punch tender - paper converting
72602 dredge mate	83101 drill stem tester - oil and gas drilling
72401 dredge mechanic	83101 drill stem tester
73400 dredge operator	83101 driller - offshore drilling rig
72401 dredge repairer	83101 driller - oil and gas drilling
73400 dredge runner	73402 driller - quarrying
75110 dredge worker	73402 driller - surface mine
72021 dredgemaster - construction	73402 driller - surface mining
72021 dredging equipment operators foreman/woman	83100 driller - underground mining
72021 dredging foreman/woman	75110 driller helper - surface mining
95109 dress finisher	84100 driller helper - underground mining
53125 dress patternmaker	72021 drilling and blasting foreman/woman - construction
92015 dress repairs foreman/woman - clothing manufacturing	94106 drilling and milling machine operator - metal machining
84120 dressage and stunt horse trainer	21332 drilling and recovery chief engineer
54100 dressage instructor	21332 drilling and recovery petroleum engineer
94130 dressed hide and pelt finisher	22101 drilling fluid technician
94143 dressed poultry grader	82020 drilling foreman/woman - mining and quarrying
95101 dresser - metal products manufacturing	73402 drilling machine operator - construction
53111 dresser - motion pictures, broadcasting and performing arts	94106 drilling machine operator - metal machining
94130 dresser - textile manufacturing	83100 drilling machine operator - underground mining
94140 dressing and sauce mixer	80010 drilling operations manager
94140 dressing mixer operator - food and beverage processing	72106 drilling platform welder
64200 dressmaker	72500 drilling rig crane operator
92015 dressmakers supervisor	32102 drilling rig medic
92015 dressmaking department foreman/woman	32102 drilling rig medical technician
92015 dressmaking department supervisor	32102 drilling rig medical warden
83100 drift driller - underground mining	32102 drilling rig medical worker
83100 drift miner	14404 drilling rig radio operator
93200 drill and ream mechanic - aircraft assembly	14401 drilling rig storekeeper
84100 drill carriage operator helper - underground mining	72106 drilling rig welder
82020 drill fitter boss - mining	22310 drilling rigs electronic technician
82020 drill fitter foreman/woman - mining	65201 drive-in food service attendant
95101 drill grinder - metal products manufacturing	65211 drive-in theatre attendant
	75211 driver helper

75201 driver salesman/woman	94124 drum sander - woodworking
75201 driver salesperson	94124 drum sander operator - woodworking
43109 driver's licence examiner	51122 drummer
43109 driving examiner	94205 dry battery coremaking machine tender
43109 driving instructor	94205 dry battery inspector - electrical equipment manufacturing
65211 driving range attendant	94205 dry battery process room operator - electrical equipment manufacturing
43109 driving school instructor	94205 dry battery tester - electrical equipment manufacturing
60040 driving school manager	94130 dry cans operator - textile manufacturing
65329 drone pilot	94205 dry cell and battery assembler
22301 drone technician	94205 dry cell assembler
94105 drop forge hand	92021 dry cell assemblers supervisors
94105 drop forge operator - metal forging	94205 dry cell assembly machine feeder - electrical equipment manufacturing
94105 drop forge operator	94205 dry cell battery assembler
94105 drop forger	94205 dry cell capping machine tender - electrical equipment manufacturing
94105 drop hammer forger	94205 dry cell charge machine operator - electrical equipment manufacturing
95101 drop hammer helper - metal fabrication	94205 dry cell charge machine operator
94105 drop hammer operator - metal forging	94205 dry cell charger operator - electrical equipment manufacturing
94129 drop sorter operator - wood processing	94205 dry cell coremaking machine tender - electrical equipment manufacturing
42201 drop-in centre worker	94205 dry cell coremaking machine tender
94131 drop-pinning machine operator - textiles	95109 dry cell remover - electrical equipment manufacturing
93100 dross furnace operator	94205 dry cell sealer - electrical equipment manufacturing
95100 dross skimmer - primary metal and mineral products processing	94205 dry cell tester - electrical equipment manufacturing
94100 dross treatment operator - zinc melting	94205 dry cell tube machine assembler - electrical equipment manufacturing
41301 drug addiction counsellor	95103 dry chain offbearer - wood processing
42201 drug addiction worker	95103 dry chainman/woman - wood processing
41404 drug and alcohol abuse consultant	65320 dry cleaner helper
94110 drug and toilet goods weigher	62029 dry cleaner supervisor
94219 drug and toilet preparations inspector	65320 dry cleaner
31120 drug information pharmacist	75201 dry cleaning driver
41310 drug investigator - police	65320 dry cleaning machine operator - laundry and dry cleaning
40040 drug squad inspector - police	65320 dry cleaning machine operator helper
75201 drug store delivery driver	60040 dry cleaning plant manager
31120 druggist	
64100 drugstore clerk	
33103 drugstore dispensing assistant	
60020 drugstore manager	
33103 drugstore side room attendant	
94129 drum barker tender - wood processing	
53124 drum maker - artisan	
94213 drum painter	

62029 dry cleaning production supervisor	73102 drywall and ceiling system installer
60040 dry cleaning service manager	73102 drywall and lather applicator
62029 dry cleaning supervisor	72014 drywall application contractor
95106 dry curer - food and beverage processing	73102 drywall applicator
75210 dry dock worker - shipbuilding	72014 drywall applicators foreman/woman
94110 dry explosive mixer	72014 drywall contractor
94140 dry foods mixer operator	73102 drywall finisher apprentice
94110 Dry Ice maker	73102 drywall finisher
94103 dry pan operator - stone products	73102 drywall hanger
94103 dry plaster mixer	73102 drywall installer and finisher apprentice
94103 dry press operator - clay products	73102 drywall installer and finisher
94103 dry products mixer - stone products	73102 drywall installer lead hand
94140 dry starch maker helper	72014 drywall installer supervisor
94140 dry starch maker	73102 drywall installer team leader
94140 dry starch operator - food and beverage processing	73102 drywall installer
94140 dry starch worker - food and beverage processing	73102 drywall interior systems installer
94130 dryer - textile manufacturing	73102 drywall mechanic
94140 dryer and cooler operator - tobacco processing	73102 drywall nailer
94110 dryer operator - chemical processing	73102 drywall nailing person
94140 dryer operator - food processing	75110 drywall sander
94100 dryer operator - mineral and metal processing	73102 drywall taper
94110 dryer tender - chemical processing	72014 drywaller-contractor
94140 dryer tender - tobacco processing	94105 dual action hammer operator - metal forging
95102 dryer tender helper - chemical processing	51111 dubbing dialogue writer
95100 dryer worker - primary metal processing	52113 dubbing machine operator
94110 dryhouse attendant - chemical processing	73200 duct installer - construction
94140 drying drum tender - food and beverage processing	73200 duct installer
94129 drying kiln operator - wood processing	64322 dude wrangler
95105 drying machine helper - textile processing	85102 dulse gatherer
94130 drying machine operator - textile manufacturing	72406 dumbwaiter installer-repairer
94140 drying machine operator - tobacco processing	73300 dump truck driver
94103 drying machine tender - clay products	75101 dumper - material handling
94130 drying machine tender - textile manufacturing	75101 dumper - surface coal mining
94130 drying machine tender - textile processing	95106 dumping machine tender - food and beverage processing
84100 dryman/woman - underground mining	75212 dumpman/woman
94101 dry-sand moulder - foundry	73300 dumpster truck driver
92012 dry-starch foreman/woman - food processing	53111 duplicate-film examiner - motion pictures and broadcasting
73102 drywall and acoustic mechanic	94201 duplicating machine assembler
75110 drywall and acoustical board installer helper	94105 duplicator punch operator - metal fabrication

94219 dust brush assembler
94219 dust brush maker
94219 dust mop assembler
94219 dust mop maker
94100 dust operator
94100 dust pump operator - slag furnace
95100 dust remover - primary metal processing
95100 dust-collector labourer - primary metal processing
94219 duster maker
21101 dye chemist
92015 dye department foreman/woman - textiles
92015 dye foreman/woman - textiles
94110 dye maker
94130 dye mixer
22230 dye penetrant technician
22230 dye penetrant tester
92015 dye room foreman/woman - textile processing
92015 dye room supervisor - textiles processing
92015 dye room supervisor - textiles
92015 dye room supervisor
92015 dyehouse foreman/woman - hide and pelt processing
92015 dyehouse foreman/woman - textiles
92015 dyehouse supervisor - textile processing
95105 dyeing and finishing machine loader
22100 dyeing and finishing technician
22100 dyeing and finishing technologist
94130 dyeing machine tender - textile manufacturing
94130 dyeing range operator - textile manufacturing
92015 dyeing supervisor - textiles
22100 dyeing technician
94130 dyeing tub tender - textile manufacturing
94130 dyeing vat operator - textile manufacturing
94130 dyeing worker - textile manufacturing
65320 dyer - laundry and dry cleaning
94130 dyer - textile manufacturing
95105 dyer helper - textile processing
94130 dye-reel tender - textile manufacturing
84101 dynamic positioning operator - offshore drilling
72021 dynamiters foreman/woman - construction

82020 dynamiters foreman/woman - quarrying
72021 dynamiting foreman/woman - construction

E

31101 ear specialist
42202 early childhood assistant
41210 early childhood education instructor - college level
41210 early childhood education teacher - college level
42202 early childhood education worker
42202 early childhood educator - junior kindergarten
42202 early childhood educator - kindergarten
42202 early childhood educator - preschool
42202 early childhood educator (ECE) assistant
42202 early childhood educator (ECE)
42202 early childhood educator assistant - junior kindergarten
42202 early childhood educator assistant - kindergarten
42202 early childhood program staff assistant
42202 early childhood program supervisor
41221 early childhood services teacher - elementary school
42202 early childhood supervisor
94219 earmuffs assembler
94112 earth mover tire builder
10030 earth station manager - telecommunications
72401 earthmoving equipment mechanic
73400 earth-moving equipment operator
75110 earthworks labourer - construction
41301 eating disorder therapist
72014 eavestrough contractor
72014 eavestrough installation contractor
73200 eavestrough installer
32122 echocardiographer
32122 echocardiography technician
32122 echocardiography technologist sonographer
32122 echocardiography technologist
32123 echoencephalographic technologist
32123 echoencephalography technician
32122 echography technician

32122 echography technologist	22230 eddy current technician
21110 ecobiologist	22230 eddy current tester
53100 ecological interpreter	94124 edge bander - woodworking
20011 ecological research manager	94124 edge bander operator - woodworking
22110 ecological technician	94129 edge gluer - wood processing
22110 ecological technologist	94120 edger - sawmill
21110 ecologist	94120 edgerman/woman - sawmill
20011 ecology manager	94120 edgerman/woman
10022 e-commerce (electronic commerce) manager	95106 edible oil processing labourer
41401 econometrician	94140 edible oil pumper - food and beverage processing
41401 economic advisor	94140 edible oil refiner - food and beverage processing
40011 economic analysis chief - government services	95106 edible oil refiner helper
41401 economic analyst	14301 editing clerk
40011 economic and political affairs assistant	51110 editor
40011 economic and trade analysis director - government services	14301 editorial assistant
21110 economic botanist	52120 editorial cartoonist
41401 economic consultant	50011 editorial chief
41402 economic development consultant	14301 editorial clerk
40011 economic development coordinator	51110 editorial consultant
40011 economic development director - government services	51110 editorial page editor
41402 economic development officer - Aboriginal communities	50011 editor-in-chief
41402 economic development officer	41405 education consultant
41402 economic forecaster	64100 education courses salesperson
41409 economic geographer	40012 education curriculum development director - public administration
41409 economic historian	40012 education curriculum development director
41401 economic policy adviser	40012 education director
40011 economic policy analysis assistant director - government services	41320 education officer
40011 economic policy analysis chief - government services	41405 education outreach program coordinator
40011 economic policy analysis director - government services	41405 education policy advisor
41401 economic policy analyst	40012 education policy analysis and research director
41401 economic policy researcher	41405 education policy analyst
41401 economic research group supervisor	40012 education policy and research director - public administration
41402 economic research officer	41405 education policy consultant
41200 economics professor - university	40012 education policy development manager
41210 economics teacher - college level	40012 education policy manager
41220 economics teacher - secondary school	41405 education policy officer
41401 economist	41405 education policy supervisor
	41200 education professor - university

40012 education program administration manager	85100 egg grading station labourer
41405 education program coordinator	82030 egg grading station manager
41405 education program officer	85100 egg packer - farm
41405 education program planner	85100 egg picker - poultry
40020 education programs administrator	85100 egg processing machine tender
40012 education programs assistant director - public administration	80020 egg producer
40012 education programs assistant director	51114 elbow interpreter
40012 education programs regional director	10022 election campaign manager
40012 education programs support director - public administration	41407 election commission officer
42100 education relations officer - policing	14110 election enumerator
40012 education research and information director	40019 Elections Canada director
41405 education research officer	40019 elections expenses director
41405 education researcher	40019 elections finances director
41405 education science specialist	41407 elections officer
21210 education statistician	40019 elections planning director
41405 educational and vocational information specialist	94202 electric air conditioning assembler
43100 educational assistant	73200 electric appliance installer
31112 educational audiologist	94202 electric appliance manufacturing inspector
41320 educational counsellor	72421 electric appliance service technician
41320 educational guidance director	94105 electric arc cutter - metal products manufacturing
00013 educational institution chief financial officer (CFO)	93100 electric arc furnace operator - primary metal processing
51114 educational interpreter	72106 electric arc welder
40012 educational programs support assistant director	94202 electric baseboard heater assembler
31200 educational psychologist	94205 electric bulb maker
43100 educational resources assistant	92021 electric cable manufacturing foreman/woman
41409 educational sociologist	75119 electric cable network installer helper
31112 educational speech-language pathologist	75119 electric cable splicer helper
42202 educator assistant - junior kindergarten	94202 electric clock assembler
00013 educators association chairperson	94202 electric clock components inspector
22110 eel culture technician	94202 electric clock parts inspector
80022 eel farmer	94202 electric clothes dryer assembler
21321 efficiency engineer	94202 electric coffee maker assembler
95106 egg breaker - food and beverage processing	94202 electric contact tester
85100 egg candler	72500 electric crane operator
85100 egg collector	75101 electric dolly operator
85100 egg gatherer	72500 electric dragline operator
85100 egg grader	72421 electric dryer repairer
85100 egg grading machine tender	94202 electric fan assembler
	72421 electric fireplace servicer

94204 electric furnace assembler	72020 electric motor repair foreman/woman
94101 electric furnace operator - foundry	72422 electric motor repairer and tester
93100 electric furnace operator - primary metal and mineral products processing	75119 electric motor repairer helper
94205 electric fuse maker	72422 electric motor repairer
72500 electric gantry crane operator	72422 electric motor repairer-tester
90011 electric generating plant manager	72422 electric motor repairman/woman
90011 electric generating station manager	72020 electric motor shop foreman/woman
74203 electric golf cart servicer (except mechanic)	72422 electric motor systems technician
94202 electric heater assembler	95109 electric motor tester helper
94202 electric heating system assembly line worker	92021 electric motor testing foreman/woman
73200 electric household appliance installer - residential and commercial equipment	95109 electric motor testing helper
73200 electric household appliance installer	72422 electric motor winder
72421 electric household appliance servicer	72422 electric motor winder-repairer
94202 electric lamp assembler	75101 electric mule operator
94202 electric lamp inspector and tester	75119 electric power and wire communications labourer
94202 electric lamp maker	00015 electric power company president
94202 electric lamp parts inspector	90011 electric power plant manager
94202 electric lamp wirer	90011 electric power services manager
94202 electric lantern maker	94202 electric range assembler
94202 electric lawn mower assembler	94202 electric refrigerator assembler
94202 electric lawn mower inspector and tester	72421 electric refrigerator servicer
72421 electric lawn mower repairer	94202 electric sign assembler
94202 electric lighting fixture wirer	73200 electric sign erector
83101 electric line operator - oil field services	73209 electric sign repairer
83101 electric line operator	72201 electric signal repairer - railway
72203 electric meter installer - electric power systems	94202 electric snowblower inspector and tester
72011 electric meter installers foreman/woman	72106 electric spot welder operator
72011 electric meter installers supervisor	72106 electric spot welder
72422 electric meter repairer apprentice	72106 electric spot-welding machine operator
72422 electric meter repairer	94202 electric stove assembler
72203 electric meter setter - electric power systems	72421 electric stove repairman/woman
72422 electric meter technician	72421 electric stove serviceman/woman
94203 electric meter tester - industrial electrical equipment	94202 electric toaster inspector
72500 electric monorail crane operator	72421 electric tool repairer
92021 electric motor and generator assembly foreman/woman	73209 electric toy repairer
94203 electric motor assembler	75101 electric truck operator
94203 electric motor inspector	74203 electric truck servicer (except mechanic)
72422 electric motor mechanic	72010 electric welding pipe mill headwelder
	94202 electrical accessories assembler
	22313 electrical accessories shop inspector - avionics

22310 electrical and electronics design technologist	94203 electrical control panel final assembler
22310 electrical and electronics quality control technologist	94203 electrical control panel inspector
21310 electrical and electronics research engineer	94203 electrical control panel subassembler
22313 electrical and electronics technician - avionics	94202 electrical control tester
22303 electrical and mechanical quantity surveyor	94202 electrical controls calibrator
72422 electrical apparatus mechanic	21310 electrical controls engineer
94202 electrical appliance assembler	94202 electrical controls inspector
92021 electrical appliance assemblers supervisor	21310 electrical design engineer
92021 electrical appliance assembly foreman/woman	94106 electrical discharge machine (EDM) operator
94202 electrical appliance assembly inspector	94106 electrical discharge machine (EDM) set-up operator
94202 electrical appliance assembly line repairer	94106 electrical discharge machine (EDM) tender
92021 electrical appliance assembly supervisor	21310 electrical distribution engineer
94202 electrical appliance assembly tester	21310 electrical distribution planning engineer
94202 electrical appliance bench assembler	72200 electrical distribution technician - Canadian Armed Forces
94202 electrical appliance bench worker	22212 electrical drafting supervisor
94202 electrical appliance inspector	22212 electrical drafts person
73200 electrical appliance installer	94205 electrical dry battery inspector
95109 electrical appliance manufacturing labourer	92021 electrical dry cell assembly foreman/woman
92021 electrical appliance manufacturing supervisor	94205 electrical dry cell inspector - electrical equipment manufacturing
94202 electrical appliance operator-assembler	94205 electrical dry cell inspector
94202 electrical appliance production assembler	94205 electrical dry cell-making inspector
72020 electrical appliance repair shop supervisor	22233 electrical energy installation inspector
72421 electrical appliance repairer	21310 electrical energy transmission engineer
72421 electrical appliance serviceman/woman	21310 electrical energy transmission planning engineer
72421 electrical appliance servicer	21310 electrical engineer
72421 electrical appliance technician	22310 electrical engineering design technologist
72011 electrical appliances installation foreman/woman	21310 electrical engineering lead
72200 electrical apprentice	20010 electrical engineering manager
72203 electrical cable splicer - electric power systems	41200 electrical engineering professor - university
94205 electrical connection crimper	21310 electrical engineering project manager
72011 electrical construction contractor	22310 electrical engineering technician
72011 electrical construction foreman/woman	22310 electrical engineering technologist
94202 electrical continuity tester - electrical appliance manufacturing	94202 electrical equipment assembler
94203 electrical continuity tester - industrial electrical equipment	94202 electrical equipment assembly line setter
72011 electrical contractor	94205 electrical equipment base filler
94202 electrical control assembly inspector	94213 electrical equipment enameller
94203 electrical control equipment fitter-assembler	21310 electrical equipment engineer
94203 electrical control panel assembler	94205 electrical equipment impregnator

72011 electrical equipment installation and repair foreman/woman	72422 electrical mechanic - electrical utilities
92021 electrical equipment manufacturing foreman/woman	72422 electrical mechanic (except avionics)
94202 electrical equipment manufacturing inspector	72422 electrical mechanic apprentice
94205 electrical equipment manufacturing machine operator	75119 electrical mechanic helper
92021 electrical equipment manufacturing supervisor	72422 electrical mechanic trainee
94202 electrical equipment manufacturing tester	72422 electrical mechanic
94202 electrical equipment manufacturing utility operator	72020 electrical mechanics foreman/woman
72422 electrical equipment mechanic trainee	72422 electrical mechanics group leader
73400 electrical equipment operator - shovel	72422 electrical mechanics lead hand
94202 electrical equipment production assembler	94202 electrical mercury switch assembler
62100 electrical equipment sales representative	94202 electrical mercury switch assembly tester
22303 electrical estimator - construction	94202 electrical meter assembler
94203 electrical fitter - industrial electrical equipment	92021 electrical motor assembly foreman/woman
94203 electrical fitter	72422 electrical motor coil winder-repairer
72200 electrical fixtures installer	21310 electrical network engineer
72011 electrical foreman/woman	94203 electrical panel assembler and wirer - industrial electrical equipment
74205 electrical forester	94205 electrical plug maker
94202 electrical household appliance assembler	72011 electrical power inspector and tester supervisor
94202 electrical household appliance inspector	21310 electrical power scheduling engineer
62100 electrical industrial equipment sales representative	22310 electrical power supply system technician
22233 electrical inspector - construction	22310 electrical power system planning technician
94202 electrical inspector - manufacturing	22310 electrical power system technician
72011 electrical installation contractor	21310 electrical power systems design engineer
22233 electrical installation inspector	92100 electrical power systems operator
72011 electrical installation supervisor	21310 electrical power systems service engineer
72422 electrical instrument mechanic	90011 electrical power transmission operations director
72422 electrical instrument repairer	72202 electrical powerhouse electrician - electrical power system
94202 electrical insulator assembler - small transformer manufacturing	72202 electrical powerhouse electrician
95109 electrical insulator tester	21310 electrical process control engineer
94205 electrical lamp-making machine set-up man/woman	95109 electrical products labourer
94205 electrical lead acid storage battery filler	95109 electrical products manufacturing labourer
94205 electrical light bulb inspector	21310 electrical project engineer
94202 electrical lighting fixture tester	94200 electrical quality assurance inspector - motor vehicle manufacturing
72011 electrical load tester supervisor	94202 electrical relay tester and adjuster
72100 electrical machinist	72201 electrical repairer - crane maintenance
22212 electrical marine draftsman	21310 electrical research engineer
	72422 electrical rewind mechanic
	94112 electrical rubber goods manufacturing tester

22233 electrical safety inspector	72011 electrical wiring installation contractor
92100 electrical station operator - electrical power systems	72200 electrical wiring installer - construction
92100 electrical station operator	94205 electrical-equipment-impregnating machine operator
94205 electrical storage battery charger operator	72202 electrician - electricity production
94205 electrical storage battery inspector	72201 electrician - rail transport
94205 electrical storage battery plate washer and dryer	72200 electrician - troubleshooter
94205 electrical storage battery repairer - electrical equipment manufacturing	72011 electrician foreman/woman
94205 electrical storage battery tester	72200 electrician
72202 electrical substation electrician - electrical power system	72011 electricians supervisor
70012 electrical superintendent	22231 electricity and gas meter inspector
72011 electrical supervisor - drilling rig	21100 electricity and magnetism physicist
94202 electrical switch assembler	22310 electricity distribution network technologist
94202 electrical switch maker	62100 electricity sales representative
94203 electrical switchboard and panel inspector	32123 electrocardiographic (ECG) technician
92021 electrical switchgear assembly foreman/woman	32123 electrocardiographic (ECG) technologist
94203 electrical switchgear inspector	32123 electrocardiography technician
94203 electrical switchgear panel inspector	32123 electrocardiography technologist
94203 electrical switchgear panel wirer	32123 electrocardiology technician
94203 electrical switchgear tester	32123 electrocardiology technologist
94203 electrical switchgear wireperson	21320 electrochemical engineer
72011 electrical systems contractor	94106 electrochemical machining tool operator
21310 electrical systems planning engineer	21101 electrochemist
21310 electrical systems protection engineer	95102 electrode cleaner
22310 electrical technician	94205 electrode installer
94200 electrical test technician - motor vehicle manufacturing	94110 electrode oven operator
94200 electrical testing technician - motor vehicle manufacturing	32123 electroencephalograph (EEG) technician
92021 electrical transformer assembly foreman/woman	32123 electroencephalograph (EEG) technologist
72422 electrical transformer repairer	32123 electroencephalograph technologist
94202 electrical wire group assembler - electrical equipment manufacturing	32123 electroencephalographic instructor
94201 electrical wire group assembler - electronic equipment manufacturing	94213 electroformer
94202 electrical wire insulation tester	94213 electrogalvanizer
94200 electrical wirer - automotive assembly	94213 electrogalvanizing machine operator
72200 electrical wirer - construction	94213 electroless plater
22233 electrical wiring inspector - construction	63211 electrologist
72011 electrical wiring inspector supervisor	41210 electrolysis instructor - vocational institute
	63211 electrolysis operator
	63211 electrolysis technician
	94202 electrolysis tester - electrical equipment manufacturing
	94205 electrolytic anode changer

95102 electrolytic cell cleaner	21234 electronic business (e-business) Web site developer
94103 electrolytic cell maker - concrete products	94201 electronic business machine assembler
92010 electrolytic cell operations foreman/woman - primary metal and mineral products processing	94201 electronic cash register assembler
94203 electrolytic cell repairer - industrial electrical equipment	22311 electronic cash registers servicer
94104 electrolytic cell tester - primary metal processing	10022 electronic commerce (e-commerce) manager
94100 electrolytic cleaner operator - primary metal processing	60010 electronic commerce (e-commerce) sales manager
94100 electrolytic descaler - primary metal processing	21232 electronic commerce (e-commerce) software developer
94106 electrolytic etcher - metal machining	21234 electronic commerce (e-commerce) Web site developer
95100 electrolytic refiner helper - primary metal and mineral products processing	72205 electronic communications technician
93100 electrolytic refinery process operator	94201 electronic component assembler
94100 electrolytic tank maintainer - primary metal and mineral products processing	94201 electronic component cleaner
94213 electrolytic tank tender	94201 electronic component insertion colour coder
22212 electromechanical draftsman	94201 electronic component tester - electronic equipment manufacturing
72020 electromechanical foreman/woman	22310 electronic components inspection technician
22310 electromechanical technician	10012 electronic components purchasing chief
72020 electromechanical technicians foreman/woman	10012 electronic components purchasing director
41210 electromechanical technology teacher - college level	10012 electronic components purchasing manager
22310 electromedical equipment technician	94201 electronic components tester
21322 electrometallurgical engineer	94201 electronic control assembler
32123 electromyography (EMG) chief technologist	94201 electronic control operator - electronic equipment manufacturing
32123 electromyography (EMG) technician	21223 electronic data processing (EDP) analyst
32123 electromyography (EMG) technologist	21230 electronic data processing (EDP) applications programmer
32120 electron microscopy technologist - medical laboratory	21222 electronic data processing (EDP) auditor
94201 electron tube assembler	20012 electronic data processing (EDP) manager
94201 electron tube inspector and tester	21223 electronic data processing (EDP) specialist
94201 electron tube stem assembly inspector	21223 electronic data processing (EDP) systems analyst
32123 electroneurodiagnostic (END) technologist	14111 electronic data-processing (EDP) equipment operator
32123 electroneurophysiology (ENP) technologist	62100 electronic data-processing (EDP) hardware and services sales representative
22313 electronic accessories repair and overhaul mechanic - avionics	12010 electronic data-processing (EDP) unit - supervisor
92021 electronic assembly foreman/woman	22212 electronic draftsman
92021 electronic assembly supervisor	94151 electronic engraver
10022 electronic business (e-business) manager	94201 electronic equipment assembler - electronic equipment manufacturing
21232 electronic business (e-business) software developer	

92021 electronic equipment fabricating and assembling foreman/woman	22311 electronic service technician supervisor
92021 electronic equipment fabricating and assembling supervisor	22311 electronic service technician
94201 electronic equipment inspector	14112 electronic sign maker operator - typesetting
22311 electronic equipment installation and repair supervisor	94150 electronic sign maker operator
22310 electronic equipment maintenance technician	22310 electronic systems tester
22311 electronic equipment repairer	41210 electronic technology teacher - college level
62100 electronic equipment salesperson - wholesale	94201 electronic unit inspector - electronic equipment manufacturing
94201 electronic equipment subassembler	52113 electronic video graphics operator
52110 electronic field production (EFP) camera operator	42102 electronic-optronic technician
14112 electronic formatter	72205 electronics apprentice - community antenna television
22311 electronic game technician - household and business equipment	94201 electronics assembler
22311 electronic games repairer	22310 electronics design technologist
22311 electronic games technician	21310 electronics engineer
94124 electronic gluing machine tender - woodworking	22310 electronics engineering design technologist
92021 electronic inspection foreman/woman - electronics manufacturing	22310 electronics engineering technician
94201 electronic instrument maker	22310 electronics engineering technologist
94201 electronic keyboard assembler	94201 electronics equipment assembler
14112 electronic letterer operator	94201 electronics inspector - electronic equipment manufacturing
22311 electronic music equipment installer and repairer	92021 electronics manufacturing foreman/woman
52110 electronic news gathering (ENG) camera operator	94201 electronics manufacturing shop worker
52113 electronic news gathering (ENG) editor	92021 electronics manufacturing supervisor
94201 electronic office machines assembler	22310 electronics manufacturing technician
94201 electronic organ assembler	22310 electronics manufacturing technologist
22311 electronic organ repairer	22313 electronics mechanic - avionics
94201 electronic peripheral equipment assembler	21100 electronics physicist
14112 electronic photocomposer operator	22310 electronics production support technician
14112 electronic phototypesetting machine operator	22310 electronics quality control troubleshooter
94151 electronic prepress technician	21310 electronics research engineer
94150 electronic printing machine operator	21100 electronics research scientist
22310 electronic production repairer	64100 electronics salesperson - retail
22311 electronic products field service technician	22311 electronics technician - consumer products
94201 electronic products moulder - electronic equipment manufacturing	22311 electronics technician - household and business equipment
60020 electronic products store manager	22310 electronics technician
22310 electronic prototype technologist	22310 electronics technologist
22311 electronic service technician apprentice	21310 electronics test engineer
	94201 electronics tester
	94201 electronics-manufacturing process inspector
	94213 electroplasty equipment operator

94213 electroplater operator	72406 elevator mechanic (non-construction)
94213 electroplater	72406 elevator mechanic apprentice
92023 electroplating foreman/woman	72020 elevator mechanic foreman/woman
92023 electroplating supervisor	75119 elevator mechanic helper
94151 electroplating tank tender	72406 elevator mechanic
94151 electrostatic camera operator	65329 elevator operator
94213 electrostatic machine painter	72406 elevator repair mechanic
94213 electrostatic painter	72406 elevator repairer
94213 electrostatic painting line tender	72020 elevators maintenance service supervisor
94213 electrostatic painting machine operator	42201 eligibility coordinator - social assistance
94213 electrostatic painting machine set-up operator	42201 eligibility coordinator - welfare
94100 electrostatic separator tender - primary metal processing	83101 e-line operator - oil field services
22313 electrotechnician - avionics	41210 elocution teacher - non-medical
94151 electrotypewriter - printing	94213 Elpo tank attendant
94151 electrotypewriter and platemaker	62201 embalmer apprentice
95109 elemental worker - packaging	62201 embalmer
40012 elementary education director	41210 embalming teacher
21100 elementary particle physicist	21231 embedded software designer
21100 elementary particle theorist	21231 embedded software engineer
40012 elementary school education director	95109 emblem-fusing machine operator - garment manufacturing
52100 elementary school librarian	94124 embosser - woodworking
40021 elementary school principal	94121 embossing calender operator - pulp and paper
41221 elementary school reading clinician	94130 embossing calender tender - textile manufacturing
41221 elementary school substitute teacher	94219 embossing machine operator - footwear
41221 elementary school supply teacher	94124 embossing machine operator - woodworking
41221 elementary school teacher	94107 embossing machine tender - explosives manufacturing
73400 elevating grader operator	94124 embossing machine tender - woodworking
73400 elevating scraper operator	94152 embossing press operator - printing
72406 elevator adjuster	94152 embossing press tender - printing
72406 elevator builder	94150 embossing printer
72020 elevator construction foreman/woman	94152 embossing/encoding machine tender - printing
72406 elevator constructor and mechanic apprentice	94150 embossing-imprinting machine operator
75119 elevator constructor helper	95109 embroidered fabric connecting thread cutter tender
72406 elevator constructor	53123 embroidery designer
72406 elevator constructor-mechanic	95109 embroidery frame moulder
72020 elevator constructors foreman/woman	95109 embroidery machine charger
72406 elevator erector	94131 embroidery machine operator
22231 elevator inspector	94131 embroidery machine tender
72406 elevator installer	
72406 elevator maintenance mechanic	

53125 embroidery patternmaker	72011 emergency team foreman/woman - telecommunications
92015 embroidery supervisor - fabric products	14404 emergency vehicle dispatcher
21110 embryologist	33109 emergency-entry attendant - hospital
14101 emergency admitting clerk	31100 emergentologist
31103 emergency and intensive care veterinarian	10011 employee benefits director
31301 emergency care nurse	10011 employee benefits manager
72203 emergency line repairer - electric power systems	41406 employee fitness consultant
41400 emergency management analyst	41406 employee fitness counsellor
40019 emergency management coordinator - government services	14201 employee insurance clerk
40019 emergency measures manager - government services	11200 employee relations officer
32102 emergency medical assistant	11200 employee services officer
32102 emergency medical attendant (EMA)	11200 employer-employee relations coordinator
33102 emergency medical care assistant	10011 employer-employee relations manager
33102 emergency medical care attendant (non-paramedical)	11200 employment adviser - human resources
14404 emergency medical dispatcher	00012 employment agency general manager
33102 emergency medical responder (non-paramedical)	10029 employment agency manager
32102 emergency medical technician - paramedic/advanced care paramedic (EMT - P/ACP)	40010 employment and insurance programs director - government services
32102 emergency medical technician - primary care paramedic (EMT - PCP)	41321 employment assistance officer
32102 emergency medical technician (EMT)	40010 employment centre director
32102 emergency medical technologist - paramedic (EMT-P)	14102 employment clerk
31100 emergency medicine physician	41321 employment consultant
31100 emergency medicine specialist	41321 employment counsellor - government services
31301 emergency nurse	11200 employment equity adviser - human resources
32102 emergency paramedic	41403 employment equity adviser - social policy
31100 emergency physician	10011 employment equity chief
41400 emergency preparedness planner	41403 employment equity consultant
40019 emergency response coordinator - government services	11200 employment equity coordinator
40019 emergency response services director	10011 employment equity director - human resources
33102 emergency room aide	10011 employment equity manager - human resources
33109 emergency room attendant	11200 employment equity officer
40019 emergency safety manager - government services	41403 employment equity policy analyst
72203 emergency servicer - electric power systems	41403 employment equity policy consultant
14404 emergency services dispatcher	40010 employment equity programs director - government services
	41321 employment group counsellor
	41403 employment initiatives coordinator
	12104 employment insurance agent
	00011 employment insurance appeals board chairperson

12104 employment insurance benefit claims investigator	94111 encapsulator - plastic manufacturing
12104 employment insurance benefits control officer	94124 end bore operator - woodworking
00011 employment insurance commissioner	94124 end trimming and boring machine operator - woodworking
12104 employment insurance officer	94124 end-boring machine operator - woodworking
41403 employment insurance policy analyst	31100 endocrinologist
40010 employment insurance regional manager - government services	31110 endodontist
41403 employment insurance services adviser	22233 energy advisor
12101 employment interviewer	10029 energy asset joint venture manager
10011 employment manager	12102 energy asset joint venture representative
10029 employment office manager	12102 energy asset surface land analyst
41321 employment outreach counsellor	21301 energy conservation engineer
41321 employment outreach program coordinator	41401 energy economist
41321 employment outreach program counsellor	92100 energy from waste plant operator
11200 employment practices officer	40011 energy market analysis director - government services
40010 employment programs director - government services	00015 energy operations vice-president
41321 employment services assessment officer	41400 energy policy analyst
41321 employment services group counsellor	40011 energy policy director - government services
41321 employment services officer	41400 energy program officer
41403 employment standards specialist	92100 energy recovery incinerator plant operator
12101 employment supervisor	21120 enforcement officer - environmental health
94219 enamel applier - jewellery manufacturing	22112 enforcement officer - forestry
94213 enamel baker - manufacturing	92023 engine accessories assembly foreman/woman (except aircraft)
94102 enamel burner - glass products manufacturing	94204 engine accessories inspector
94219 enamel burner - jewellery manufacturing	72404 engine accessories overhaul mechanic
94219 enamel decorator - jewellery manufacturing	94213 engine and generator support painter
94213 enamel dipper	92023 engine assembly foreman/woman (except aircraft)
94213 enamel painter	92023 engine assembly supervisor (except aircraft)
53124 enameller - arts and crafts	94200 engine block tester - motor vehicle manufacturing
94213 enameller - industrial painting and coating	94200 engine dress assembler - motor vehicle manufacturing
94213 enameller - ship and boat building	92020 engine dress supervisor - motor vehicle manufacturing
94213 enameller	94204 engine dynamometer tester
94102 enamelling furnace operator - glass products manufacturing	75119 engine fitter helper
94213 enamelling machine tender	94202 engine generator set assembler
53124 enamellist - arts and crafts	92023 engine guard assembly foreman/woman (except aircraft)
94102 enamelware paint baker - glass products manufacturing	94200 engine inspector - motor vehicle manufacturing
94140 encapsulator - cannabis processing	
94205 encapsulator - electrical equipment manufacturing	

94200 engine installer - motor vehicle manufacturing	22310 engineering technologist - electrical power distribution
94106 engine lathe set-up operator	72600 engineering test pilot
72410 engine mechanic - motor vehicle	00012 engineering vice-president - financial, communications and other business services
72020 engine overhaul foreman/woman	00015 engineering vice-president - goods production, utilities, transportation and construction
92023 engine rebuilding shop foreman/woman (except aircraft)	00014 engineering vice-president - television broadcasting services
74201 engine room crew member - ship	00014 engineering vice-president - trade, broadcasting and other services
74201 engine room greaser - marine	75211 engineer's assistant
74201 engine room greaser - water transport	41220 English as a second language (ESL) high school teacher
74201 engine room mechanical assistant - ships	41210 English as a second language (ESL) teacher - college level
94200 engine tester - automobile assembly	41221 English as a second language elementary school teacher
92023 engine testing foreman/woman (except aircraft)	41221 English as a second language teacher - elementary school
21399 engineer in agronomy	41210 English as a second language teacher (except elementary, high school or university)
72603 engineer officer - water transport	51110 English editor
21390 engineer weight analyst - aircraft design	41220 English literature high school teacher
41200 engineering and architecture professor - university	41200 English professor - university
20010 engineering and maintenance manager	41210 English teacher - business college
14301 engineering clerk	41210 English teacher - college level
20010 engineering delivery chief	41221 English teacher - elementary school
22231 engineering department inspector - local government	41220 English teacher - secondary school
22231 engineering department inspector	94151 engraver, printing cylinders
20010 engineering department manager	94151 engraver-letterer
22212 engineering design and drafting technologist	72022 engravers foreman/woman (except photoengravers) - printing
22212 engineering draftsperson	94151 engraver-transferrer
62100 engineering equipment salesperson	72022 engraving foreman/woman (except photoengraving) - printing
00012 engineering firm president	94150 engraving machine operator - printing
22231 engineering inspector	94219 engraving machine operator
41200 engineering instructor - university	94153 enlarger operator - photographic processing
20010 engineering manager - manufacturing	90010 enologist
20010 engineering manager	64409 enquiries clerk
21399 engineering physicist	94140 enrobing machine operator - food and beverage processing
41200 engineering professor - university	72601 enroute air traffic controller
22231 engineering regulatory officer	94131 entering machine operator - textiles
00012 engineering research general manager	
21399 engineering scientist	
20010 engineering superintendent	
62100 engineering supplies salesperson	
22213 engineering survey technician	
22213 engineering survey technologist	

21222 enterprise architect - information technology (IT)	00013 environmental group executive director
21223 enterprise data architect	21120 environmental health and safety advisor
20012 enterprise resource planning (ERP) manager	21120 environmental health and safety coordinator - public health and environmental safety
21221 enterprise resource planning analyst	22232 environmental health and safety coordinator - workplace
53121 entertainer	21120 environmental health inspector
11202 entertainment agent	21120 environmental health inspectors supervisor
51113 entertainment columnist	21120 environmental health officer
53111 entertainment stage rigger	21120 environmental health officers supervisor
50012 entertainment, sports and leisure director	40010 environmental health services director - government services
50012 entertainment, sports and recreation director	41400 environmental impact analyst
22110 entomological technician	41400 environmental issues lobbyist
22110 entomological technologist	41400 environmental lobbyist
21110 entomologist	31100 environmental medicine specialist
62200 entremetier	21120 environmental officer
14110 enumerator	21202 environmental planner
94122 envelope flap-button machine tender - paper converting	41400 environmental program coordinator
94122 envelope machine operator	41400 environmental program development supervisor
94122 envelope machine tender - paper converting	41400 environmental program manager
94122 envelope maker operator	41400 environmental project manager
94122 envelope-flap-cutting machine setter	21120 environmental safety advisor
94122 envelope-flap-gumming machine tender - paper converting	21120 environmental safety consultant
94122 envelope-making machine operator	21120 environmental safety officer
94122 envelope-making machine setter - paper converting	21120 environmental safety specialist
74100 envelope-sealing and envelope-imprinting machine tender	20011 environmental science manager
41400 environmental advisor (except engineer)	65310 environmental service worker (ESW) - hospital
21110 environmental and occupational toxicologist	33102 environmental support person - medical
33102 environmental assistant - medical	92101 environmental systems operator - water treatment
21110 environmental biologist	22300 environmental technician
94202 environmental chamber fitter-assembler	21110 environmental toxicologist
21320 environmental chemical engineer	21101 enzyme chemist
21101 environmental chemist	94141 enzyme injector - food and beverage processing
41400 environmental consultant (except engineer)	21110 enzymologist
41400 environmental education consultant	21110 enzymology biologist
21300 environmental engineer	21210 epidemiologist (except physician and veterinarian)
21210 environmental epidemiologist	94205 epoxy coater - electrical equipment manufacturing
21102 environmental geologist	
40030 environmental group director	

94205 epoxy coating machine operator - electrical equipment manufacturing	11109 estate and trust administrator
94205 epoxy coating machine operator	11109 estate executor
94205 epoxy encapsulator - electrical equipment manufacturing	65329 estate manager
94219 epoxy-pouring machine operator	13111 estate secretary
94124 equalizer operator - woodworking	60040 esthetic services manager
53121 equilibrist	31101 esthetic surgeon
31103 equine veterinarian	63211 esthetician
10030 equipment chief - telecommunications	94151 etcher - printing
95102 equipment cleaner - chemical processing	53122 etcher - visual arts
22301 equipment development technician	95109 etcher helper - printing
72205 equipment installer and repairer - telecommunications	94151 etching corrector
14403 equipment inventory clerk	90011 ethanol operations manager
10012 equipment manager	41220 ethics teacher - secondary school
74205 equipment operator - municipal public work	00013 ethnic association president
11103 equity trader	63200 ethnic food cook
21300 erecting engineer	42100 ethnic relations officer - police
72103 erection and repair boilermaker	41409 ethnographer
22211 ergonomic products designer	51101 ethnographic objects conservator
41400 ergonomics consultant	41409 ethnologist
41400 ergonomics specialist	51101 ethnology curator
41400 ergonomist	51101 ethnology museum curator
55109 erotic dancer	21110 etiologist
22231 escalator inspector	64201 etiquette consultant
72406 escalator installer	41409 etymologist
72406 escalator installer-repairer	41302 evangelist
72406 escalator mechanic (non construction)	92011 evaporator foreman/woman - chemical processing
72406 escalator repairer	94110 evaporator operator - chemical processing
72406 escalator repairman/woman	94140 evaporator operator - food processing
43201 escort - correctional services	94121 evaporator tender - pulp and paper
33102 escort - health services	12103 event coordinator
65229 escort - personal services	11202 event marketing specialist
64410 escort - security services	12103 event planner
73300 escort - transportation	80021 evergreen grower
60040 escort agency manager	53110 evidence photographer - forensic
51114 escort interpreter	42100 evidence technician - police
51111 essayist	32123 evoked potential (EP) technologist
64320 establishment guide	13100 exam invigilator - post-secondary institution
13111 estate administrative assistant	13100 exam proctor - post-secondary institution
11109 estate administrator	13100 exam supervisor - post-secondary institution
	72021 excavating and grading labour foreman/woman

72021 excavating contractor	00013 executive director - health, education, social and community services and membership organizations
72401 excavating equipment mechanic	00013 executive director - teacher's federation
72021 excavating equipment operators foreman/woman	00014 executive director - trade, broadcasting and other services
73400 excavating machine operator	00013 executive general manager - health, education, social and community services and membership organizations
72021 excavating, grading and paving foreman/woman	62021 executive housekeeper
72021 excavating, grading and related work foreman/woman	72600 executive pilot
75110 excavation labourer	50011 executive producer - video games
75110 excavation worker	50011 executive producer - visual effects
72021 excavations superintendent	12101 executive recruiter
72021 excavator foreman/woman	13110 executive secretary (except legal and medical)
74203 excavator oiler	62200 executive sous-chef
73400 excavator operator	00012 executive vice-president - financial, communications and other business services
94129 excelsior machine tender	00015 executive vice-president - goods production, utilities, transportation and construction
42201 exceptional-child-care worker (except day care)	00013 executive vice-president - health, education, social and community services and membership organizations
72205 exchange installer and repairer - telecommunications	00014 executive vice-president - metal and metal products wholesaler
14201 exchange rate clerk - financial sector	00015 executive vice-president - railway
72205 exchange tester - telecommunications	00012 executive vice-president - real estate agency
12104 excise duty agent	00014 executive vice-president - trade, broadcasting and other services
12104 excise duty officer	42204 exegete
12104 excise duty supervisor	64100 exercise equipment consultant - retail
12104 excise examiner	31204 exercise physiologist
12104 excise tax collection supervisor	31204 exercise therapist
12104 excise tax collector	94201 exhaust and sealing machine operator
12104 excise tax inspector	94201 exhaust equipment setter - electronic equipment manufacturing
12104 excise tax officers supervisor	53123 exhibit designer
40011 excise tax programs director - government services	53123 exhibit designers supervisor
00011 executive administrator - government agency	53100 exhibit officer - museum
00011 executive administrator - government department	53100 exhibit preparator
12100 executive assistant	53100 exhibit technician
62200 executive chef	12103 exhibition coordinator
00011 executive director - emergency preparedness	53123 exhibition designer - museums and art galleries
00012 executive director - financial, communications and other business services	55109 exotic dancer
00015 executive director - goods production, utilities, transportation and construction	32111 expanded duty dental hygienist
00011 executive director - government services	

32111 expanded duty dental nurse	11201 export trade consultant
94105 expanding machine operator - metal products manufacturing	14400 export traffic clerk
94112 expansion joint builder - rubber products manufacturing	70020 export traffic manager
94112 expansion joint finisher - rubber products manufacturing	12013 export traffic supervisor
75201 expedite driver	14400 export-booking clerk
65201 expediter - food services	64101 exporter
14402 expediter	14301 exports clerk
14200 expenditure clerk	64409 express and freight information clerk
72404 experimental aircraft mechanic	64401 express mail service clerk
20011 experimental farm superintendent	75101 express service handler (except air transport)
41403 experimental home economist	10019 expropriation officer
72100 experimental machinist	31302 extended class registered nurse
21100 experimental physicist	84100 extensible conveyor belt assembler - underground mining
72600 experimental test pilot	22112 extension forest ranger
94112 experimental tire manufacturing inspector	21111 extension forester
21332 exploitation engineer - oil and gas	41403 extension home economist
21332 exploitation engineer - petroleum	22112 extension ranger - forestry
21102 exploration geologist	21112 extension service agronomist
21102 exploration geophysicist	75110 exterior cladder helper
72999 explosive ordnance detector	73200 exterior cladder
94219 explosive primer inspector	73102 exterior plasterer
94110 explosive primers dryhouse tender - chemical processing	52119 exterior set manager
14401 explosives and ammunition magazine keeper	52119 exterior shooting director
21320 explosives engineer	94204 exterior trailer finisher
75101 explosives handler	73200 exterior trimmer - building
12013 explosives magazine foreman/woman	73111 exterior wall glazier
94110 explosives mixer tender	72014 exterminating service supervisor
94110 explosives mixer	73202 exterminator
75101 explosives packer	94106 external cylindrical grinder set-up operator
93101 explosives senior operator	94106 external cylindrical-grinder operator
73300 explosives truck driver	10022 external relations director
64101 export company sales representative	52119 extra wrangler - motion pictures, broadcasting and performing arts
62100 export company technical sales specialist	32103 extracorporeal circulation technologist
14301 export documentation clerk	32103 extracorporeal technician
40011 export programs manager - government services	32103 extracorporeal technologist
60010 export sales manager	94140 extract maker - food and beverage processing
64101 export sales representative	21110 extraction specialist - cannabis
	21322 extractive engineer
	21109 extractive metallurgist

21322 extractive metallurgy engineer
65320 extractor operator - laundry and dry cleaning
94130 extractor tender - textile manufacturing
41407 extraparliamentary commission officer
95100 extruder helper - primary metal processing
94103 extruder operator - concrete, clay and stone products
94111 extruder operator - plastic manufacturing
94112 extruder operator - rubber products manufacturing
95100 extruder tender - mineral products processing
92010 extruding foreman/woman - primary metal and mineral products processing
92010 extruding foreman/woman - primary metal processing
95104 extruding machine helper - rubber and plastic products manufacturing
94111 extruding machine operator - plastic manufacturing
94112 extruding machine operator - rubber products manufacturing
92013 extruding supervisor - rubber and plastic products manufacturing
94111 extrusion blow moulding operator
72101 extrusion die template maker
94112 extrusion finisher - rubber products manufacturing
92013 extrusion foreman/woman - rubber and plastic manufacturing
95100 extrusion helper - primary metal processing
94111 extrusion machine operator - plastic manufacturing
94100 extrusion press operator
92013 extrusion supervisor - rubber and plastic products manufacturing
31101 eye specialist
94219 eyeglass frame assembler
94219 eyeglass frame cutter
94219 eyeglass frame inspector and sorter
94219 eyeglass frame maker
94219 eyeglass frame polisher
95109 eyeglass frame trimmer
94219 eyeglass lens mounter
94219 eyeglass lenses edger tender - non-prescription
95109 eyeglass pad cementer

32100 eyeglasses fitter
32100 eyeglasses frame fitter
94219 eyelet-punching machine tender

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53124 fabric artisan
53124 fabric artist
95105 fabric cutter - fabric products manufacturing
22302 fabric design technologist
53123 fabric designer
94130 fabric dyer
94133 fabric examiner
94133 fabric grader
94219 fabric hat assembler
94133 fabric inspector
93200 fabric installer-repairer - aircraft assembly
94133 fabric manufacturing inspector
95105 fabric marker
94132 fabric mender
92015 fabric products embroidery supervisor
94132 fabric repairer
64100 fabric salesperson - retail
94133 fabric sampler
60020 fabric store manager
95101 fabrication shop helper - metal products
72106 fabrication welder
72104 fabricator - structural metal
92015 fabric-cutting department foreman/woman
94130 fabric-printing machine operator
72400 fabric-shearing machine fixer - textile manufacturing
72400 fabric-shearing machine setter - textile manufacturing
72400 fabric-shearing machine setter-fixer - textile manufacturing
82020 face boss - underground mining
55109 face painter
83100 faceman/woman - coal mine
94124 facer operator - woodworking
63211 facial treatment operator
53123 facilities designer

70012 facilities maintenance head	41301 family counsellor
72205 facilities man/woman - telecommunications	14103 family court administrator
65210 facilities porter	41100 family court judge
72205 facilities wirer - telecommunications	10019 family court registrar
70012 facility maintenance manager	31102 family doctor
73201 facility maintenance operator	42200 family law clerk
70012 facility management director	13111 family law legal assistant
70012 facility operations manager	42200 family law paralegal
72205 facsimile equipment installer	31102 family physician
65312 factory cleaner	41301 family planning counsellor
72011 factory electrician supervisor	31102 family practitioner
83120 factory freezer trawler captain	40030 family resources director
72603 factory freezer trawler chief marine engineer	42201 family service worker
72603 factory freezer trawler first engineer	40030 family services area manager
72603 factory freezer trawler second engineer	40010 family services director - government services
94132 factory hat sewer	41300 family social worker
95109 factory helper	41301 family therapist
95109 factory labourer - manufacturing	41403 family violence prevention program adviser
95109 factory labourer, garments	44101 family worker - home care
73201 factory maintenance man/woman	94132 fancy stitch machine operator
75119 factory maintenance mechanic helper	94219 fancy wire drawer - jewellery manufacturing
72400 factory maintenance mechanic	65329 fare box collector
73201 factory maintenance worker	73209 farebox repairer
75119 factory or mill maintenance mechanic helper	72999 farm blacksmith
95109 factory shoe repairer helper	82030 farm boss
94219 factory shoe repairer	82030 farm business foreman/woman
90010 factory superintendent	41401 farm economist
64320 factory tour guide	94204 farm equipment assembly inspector
40020 faculty administrator	72401 farm equipment mechanic
40020 faculty of arts dean	84120 farm equipment operator
40020 faculty of science dean	72020 farm equipment repair foreman/woman
42204 faith healer	62100 farm equipment salesperson
84110 faller - logging	72401 farm equipment technician
84110 faller and buckler - logging	82030 farm foreman/woman
84110 faller	85101 farm hand - harvesting
40010 family and children's services director - government services	85100 farm hand - livestock
41101 family and estates lawyer	60020 farm heavy equipment dealership manager
40010 family benefits director - government services	94204 farm implement assembler
44101 family caregiver	94204 farm implement assembly inspector
44100 family child care provider	92023 farm implements assembly foreman/woman
	82030 farm irrigating system contractor

85101 farm labourer - harvesting	52120 fashion illustrator
85100 farm labourer - livestock	55109 fashion model
72405 farm machinery builder	53110 fashion photographer
84120 farm machinery custom operator	40020 fashion school general manager
94204 farm machinery dismantler	52114 fashion show commentator
72405 farm machinery fitter	53123 fashion stylist
92023 farm machinery inspection foreman/woman	41210 fashion teacher - college level
72401 farm machinery mechanic	53123 fashion wear designer
84120 farm machinery operator	75201 fast food delivery driver
62100 farm machinery salesperson	60030 fast food restaurant manager
72401 farm machinery wheelwright	94124 fastener-driver operator - woodworking
21112 farm management consultant	65201 fast-food preparer
80020 farm manager	65201 fast-food service attendant
82030 farm operation foreman/woman	75101 fats and oils loader
82030 farm operation supervisor	65320 feather renovator
82030 farm produce grading service contractor	95109 feather washer and dryer
82030 farm produce packing service contractor	51110 feature editor
40011 farm products marketing director - government services	51113 feature reporter
82030 farm supervisor	51111 feature writer
72401 farm tractor mechanic	41407 federal and intergovernmental affairs research officer - government services
72401 farm tractor repairer	41100 federal court justice - trial division
12202 farm underwriter - insurance	41100 federal court justice
31103 farm veterinarian	41100 Federal Court of Appeal justice
85101 farm worker - harvesting	41100 federal trial court justice
85100 farm worker - livestock	40019 federal-provincial relations chief
82030 farm workers supervisor	40019 federal-provincial relations director
80020 farmer (except nursery and fish farm)	41407 federal-provincial relations officer
21112 farming consultant	00015 feed and flour mills general manager
72999 farrier	94140 feed batch mixer - food and beverage processing
84120 farrowing technician	75101 feed mill loader
64201 fashion and wardrobe consultant	94140 feed mill production worker
64201 fashion colour analyst	94140 feed miller - food and beverage processing
64201 fashion colour consultant	92012 feed milling foreman/woman
51113 fashion columnist	94140 feed mixer - food and beverage processing
64201 fashion consultant	64101 feed product sales representative
53123 fashion coordinator	94143 feed tester - food and beverage processing
41210 fashion design teacher - general and vocational college (CEGEP)	95109 feeder - printing
53123 fashion designer	95103 feeder - wood processing
53123 fashion goods exhibit coordinator	94112 feeder mill operator - rubber products manufacturing

92100 feeder switchboard apprentice operator - electrical power systems	72602 ferryboat captain
92100 feeder switchboard operator - electrical power systems	74201 ferryboat deckhand
85100 feedlot assistant	72602 ferryboat first mate
80020 feedlot farmer	72602 ferryboat master
82030 feedlot foreman/woman	72602 ferryboat operator
85100 feedlot herd attendant	82030 fertilization service contractor - agriculture
85100 feedlot worker	94110 fertilizer mixer
85100 feedyard assistant	12103 festival organizer
85100 feedyard worker	95100 fettle - clay products manufacturing
84110 feller - logging	94130 fibre classer
83110 feller buncher operator	94133 fibre examiner - textiles
83110 feller delimber operator	72014 fibre glass insulation specialists foreman/woman
83110 feller forwarder operator	94133 fibre grader - textiles
84110 feller	94133 fibre inspector - textiles
72401 felling equipment mechanic	72014 fibre insulation foreman/woman
94130 felt dryer - textile manufacturing	72014 fibre insulators foreman/woman
95105 felt goods labourer	94130 fibre mixer
94219 felt hat finisher	72204 fibre optic cable splicer
92015 felt hat finishing room foreman/woman	22310 fibre optics technician
95105 felt press machine tender	22310 fibre optics technologist
94131 felt press tender - textiles	94219 fibre strap machine tender
94131 felting machine tender	94130 fibre washer
94131 felt-making machine operator	94110 fibreglass binder mixer
73200 fence builder	94219 fibreglass boat assembler
72014 fence contractor	92024 fibreglass boat assembly foreman/woman
73200 fence erector	94219 fibreglass boat assembly repairer
73200 fence installer	92024 fibreglass boat foreman/woman
53200 fencer	94219 fibreglass boat inspector and finisher
54100 fencing instructor	94212 fibreglass filter assembler
65229 feng shui practitioner	94212 fibreglass inspector
94140 fermentation process operator - food and beverage processing	72321 fibreglass insulation installer
94140 fermenter - tobacco processing	94212 fibreglass laminator
94140 fermenter operator	94212 fibreglass layup man/woman - plastic manufacturing
21101 fermentologist	94212 fibreglass layup worker - plastic manufacturing
65211 ferris wheel operator	94111 fibreglass machine operator - plastic manufacturing
70020 ferry operations manager	94111 fibreglass moulder
70020 ferry superintendent	95100 fibreglass oven charger helper
75210 ferry terminal attendant	95100 fibreglass oven helper
75210 ferry terminal worker	92013 fibreglass plastics foreman/woman

92013 fibreglass plastics processing supervisor	53202 figure skating evaluator
94130 fibreglass roving winder	53202 figure skating judge
94104 fibreglass tester	94213 filament coater
72400 fibreglass-forming machine repairer	94201 filament stem inspector - electronic equipment manufacturing
94111 fibreglass-spraying machine operator	94201 filament tester - electronic equipment manufacturing
21311 fibre-optic network designer	94201 filament-winding machine adjuster
51111 fiction writer	14100 file and classification clerk
12201 field adjuster - insurance	14100 file clerk
63100 field agent - insurance	94106 file cutter - metal machining
82030 field and vegetable crop foreman/woman	94106 file maker - metal machining
85101 field and vegetable crop labourer	11201 file manager
11100 field auditor - finances	94151 file preparation operator
12104 field auditor - taxation	94219 filigree finisher
94203 field coil taper - industrial electrical equipment	94219 filigree wire drawer - jewellery manufacturing
93101 field contract operator - oil and gas	14100 filing clerk
82030 field crop foreman/woman	12010 filing clerks supervisor
22110 field crop technician	12010 filing service supervisor
22110 field crop technologist	11201 filing systems analyst
90010 field director - manufacturing	82020 fill foreman/woman - underground mining
74204 field measurement hand - utilities	82020 fill foreman/woman
75119 field mechanic helper	95106 filler - food and beverage processing
22112 field office supervisor - forestry	94142 fillet chopper - fish processing
94121 field operator - pulp and paper	94142 filleting machine operator - fish processing
51113 field reporter	94142 filleting machine setter - fish processing
41403 field representative - housing	95105 filling carrier - textile processing
60010 field sales manager	94142 filling machine operator - fish and seafood products
64101 field salesperson - wholesale	94140 filling machine setter - food and beverage processing
21112 field service adviser - agriculture	94140 filling machine set-up man/woman - food and beverage processing
21112 field service agent - agriculture	94205 filling machine tender - electrical equipment manufacturing
70021 field service manager - postal and courier services	65101 filling station attendant
22311 field service technician - household and business equipment	50011 film and video executive producer
22232 field supervisor - occupational health and safety	94151 film assembler
40020 field teaching coordinator	52110 film camera operator
85101 field-grown crop farm labourer - harvesting	52110 film cameraman/woman
82030 field-grown crop foreman/woman	64100 film counter clerk
95103 fifth hand - pulp and paper	51113 film critic
92100 fifth-class stationary engineer	95109 film cutter - film processing
53200 figure skater	
53201 figure skating coach	

94153 film developer	14300 films and recordings library clerk
72022 film developers foreman/woman	72022 filmsetter operators supervisor
72022 film developers supervisor	72022 filmsetters supervisor
51120 film director	94201 filter assembler - electronic equipment manufacturing
53121 film dubber	94219 filter assembler
51120 film editor	94140 filter cigarette machine tender
14100 film filing clerk	95102 filter cleaner - chemical processing
52119 film location manager	95100 filter leaves cleaner - primary metal and mineral products processing
95109 film mounter - film processing	93101 filter operator - petroleum, gas and chemical processing
95109 film numberer - film processing	94121 filter operator - pulp and paper
72022 film printers foreman/woman	92010 filter plant foreman/woman - primary metal and mineral products processing
72022 film printing foreman/woman	92101 filter plant operator - water treatment
94153 film printing machine operator	94110 filter press tender - chemical processing
72022 film printing supervisor	94140 filter rod machine operator - tobacco products
72022 film processing foreman/woman	94143 filter tip inspector - tobacco processing
72022 film processing supervisor	95100 filtering attendant - primary metal and mineral products processing
94153 film processing technician	95102 filtration helper - chemical processing
94153 film processor	92101 filtration plant controller - water treatment
72022 film processors foreman/woman	92021 final assembly and testing foreman/woman - electronic equipment manufacturing
72022 film processors supervisor	92021 final assembly and testing supervisor - electronic equipment manufacturing
51120 film producer	94213 final colour production painter
50011 film production manager	93200 final-assembly inspector - aircraft assembly
53111 film projectionist	92020 final-assembly supervisor - motor vehicle manufacturing
53111 film quality inspector	94201 final-assembly tester - electronic equipment manufacturing
64100 film rental clerk	10019 finance and administration director
94151 film sizer	00012 finance and administration vice-president - financial, communications and other business services
94153 film splicer - photographic processing	00015 finance and administration vice-president - goods production, utilities, transportation and construction
95102 film spooler	00013 finance and administration vice-president - health, education, social and community services and membership organizations
94151 film stripper and layout specialist - printing	00014 finance and administration vice-president - trade, broadcasting and other services
94151 film stripper specialist - printing	11101 finance and commercial affairs analyst
94151 film stripper	
94151 film stripper-assembler - printing	
94151 film stripper-assembler	
52113 film technician - motion picture	
52113 film technician	
95106 film-coating machine tender - tobacco products	
94153 film-developing machine tender	
51120 filmmaker	
94153 film-printing machine tender	
94153 film-processing machine operator	
94219 film-processing unit assembler	

10010 finance and control manager	11102 financial consultant
11109 finance and credit administrator	10010 financial control manager
10010 finance chief	11100 financial control officer
14200 finance clerk	12011 financial control supervisor
10010 finance director	10010 financial controller
10010 finance manager	64400 financial customer service representative
12200 finance officer	10010 financial director
13110 finance secretary	41401 financial economist
12200 finance technician	51110 financial editor
00012 finance vice-president - financial, communications and other business services	10010 financial evaluations director
00014 finance vice-president - food wholesaling	11109 financial institutions examiner
00015 finance vice-president - goods production, utilities, transportation and construction	11109 financial institutions inspector
00013 finance vice-president - health, education, social and community services and membership organizations	14200 financial investigation clerk
00012 finance vice-president - holding company	11109 financial investigator
00015 finance vice-president - mining company	11100 financial management officer - pension plan analysis
00014 finance vice-president - trade, broadcasting and other services	11100 financial management officer - program budgeting
11100 financial accountant	11100 financial management officer
12011 financial accounting supervisor	10010 financial manager
10010 financial administrator	41401 financial market economist
11102 financial advisor	51110 financial news editor
10010 financial aid director - post-secondary education	12200 financial officer
13100 financial aid officer	11102 financial planner
11101 financial analysis consultant	10010 financial planning and advisory service manager
11101 financial analyst	10010 financial planning and analysis manager
10019 financial and administrative services chief	10010 financial planning and reporting director
13100 financial assistance coordinator - college or university	10010 financial planning and reporting manager
42201 financial assistance officer - social assistance	51113 financial reporter
13100 financial assistance officer	10010 financial resources service coordinator
42201 financial assistance worker - social services	63102 financial sales and service officer
10010 financial audit manager	63102 financial sales and service supervisor
11100 financial auditor	11102 financial security advisor
11103 financial broker	12200 financial services administrator - Canadian Armed Forces
10020 financial brokerage manager	11102 financial services advisor
10010 financial centre manager	11102 financial services consultant
14201 financial clerk - financial sector	11101 financial services economic analyst
14202 financial collector	10021 financial services manager
11109 financial compliance officer	63102 financial services officer
	63102 financial services representative

11101 financial services research associate	92013 finishing and trimming supervisor - rubber and plastic products manufacturing
64101 financial services sales representative	92015 finishing department foreman/woman - fabric, fur and leather products manufacturing
64101 financial services salesperson	92015 finishing department foreman/woman - textile processing
21210 financial statistician	92015 finishing department supervisor - textile processing
11109 financial underwriter	94200 finishing department technician - motor vehicle manufacturing
10010 financing and administration director	92013 finishing foreman/woman - plastic manufacturing
11202 financing officer - fundraising	72022 finishing foreman/woman - printing
94219 findings attacher - jewellery manufacturing	92013 finishing foreman/woman - rubber manufacturing
51101 fine art and polychrome conservator	94104 finishing inspector - primary metal and mineral products processing
51102 fine arts archivist	94133 finishing inspector - textiles
41200 fine arts professor - university	94210 finishing machine operator - furniture manufacturing
41210 fine arts teacher - college level	94152 finishing machine operator - printing
41220 fine arts teacher - secondary school	94130 finishing machine operator - textile manufacturing
12012 fingerprint classifier supervisor	94130 finishing range operator - textile manufacturing
14301 fingerprint clerk	94213 finishing roller industrial painter
22100 fingerprint identification technician	92022 finishing room foreman/woman - furniture and fixtures manufacturing
42203 finger-spelling teacher	92013 finishing supervisor - plastic products manufacturing
72310 finish carpenter	72022 finishing supervisor - printing
72013 finish carpenters foreman/woman	92013 finishing supervisor - rubber products manufacturing
95101 finish grinder - metal products manufacturing	92015 finishing supervisor - textiles
72013 finish joiners foreman/woman	22311 fire alarm electronics technician
53110 finish photographer	14404 fire alarm operator
94124 finish planer operator - woodworking	22311 fire alarm systems installer and servicer
73102 finish plasterer	22311 fire alarm technician
94200 finished assembled vehicle inspector - motor vehicle manufacturing	82020 fire boss - mining
94213 finished enamel sprayman/woman	72320 fire brick layer
94201 finished product inspector - electronic equipment manufacturing	72320 fire brick liner repairer
94213 finished vehicle paint repairman/woman	42101 fire captain
94103 finisher - concrete, clay and stone products	40041 fire chief
94210 finisher - furniture finishing	22112 fire crew leader - forestry
65320 finisher - laundry and dry cleaning	84111 fire crewman/woman - forestry
94100 finisher - primary metal processing	40041 fire department assistant deputy chief
94121 finisher - pulp and paper	
94130 finisher - textile manufacturing	
95101 finisher, foundry moulds	
94212 finisher-grinder - plastic manufacturing	
95109 finisher-sander - furniture manufacturing	
95109 finisher-trimmer - footwear manufacturing	
92013 finishing and trimming foreman/woman - rubber and plastic manufacturing	

40041 fire department assistant manager	21109 firearms examiner
40041 fire department chief	21109 firearms expert
14404 fire department dispatcher	94204 firearms fitter
40041 fire department division chief	72100 firearms machining inspector
40041 fire department duty officer	72100 firearms model maker machinist
42101 fire department platoon chief	40040 firearms section inspector - police
73209 fire equipment repairer	75110 firebrick layer helper
75119 fire equipment servicer helper	42101 firefighter apprentice
73209 fire equipment servicer	42101 firefighter lieutenant
73209 fire extinguisher repairer	42101 firefighter
94112 fire hose curer rubber	42101 firefighter-inspector
42101 fire inspector	40041 firefighters executive officer
12201 fire insurance adjuster	94219 firefighters' hats assembler
63100 fire insurance agent	41210 firefighters instructor
63100 fire insurance salesman/woman	41210 firefighting instructor
42101 fire lieutenant	72320 fireplace brickmason
84111 fire lookout	65311 fireplace cleaner
00011 fire marshal	73102 fireproofing applicator
72600 fire patrol pilot	73102 fireproofing plasterer
72301 fire prevention and automatic suppression systems installer	72014 fireproofing plasterers foreman/woman
21321 fire prevention engineer	72014 fireproofing plastering foreman/woman
42101 fire prevention officer	72321 firestopping insulator
72012 fire protection equipment installer foreman/woman	94219 firework assembler
72321 fire protection insulator	94219 firework maker
72301 fire protection mechanic	53111 fireworks handler
72301 fire protection piping installer	33102 first aid attendant - emergency
72301 fire protection piping system installer	33102 first aid attendant
22302 fire protection technician - manufacturing	43109 first aid instructor
42101 fire safety inspection firefighter	31301 first aid nurse
72301 fire sprinkler fitter	30010 first aid services director
22112 fire suppression crew foreman/woman - forestry	63200 first cook
84111 fire suppression crewman/woman - forestry	52119 first grip
22112 fire suppression officer - forestry	72602 first mate - inland waters
12202 fire underwriter - insurance	00010 First Nations band chief
94213 firearm burnisher - metal plating	00010 First Nations band council member
94213 firearm finisher - metal plating	00011 First Nations band manager
92024 firearms assembly foreman/woman	41320 First Nations counsellor - education
95101 firearms cleaner - metal products manufacturing	00010 First Nations government leader
94106 firearms etcher	41320 First Nations studies program academic adviser
	72600 first officer - air transport
	73401 first press operator - printing

73401 first pressman/woman - printing	94142 fish dryer tender - fish processing
73401 first pressman/woman	94142 fish egg processor - fish processing
41407 first secretary - foreign service	85102 fish farm helper
62200 first sous-chef	80022 fish farm manager
92100 first-class power engineer	80022 fish farm operator
92100 first-class stationary engineer	22110 fish farm technologist
14200 fiscal clerk	85102 fish farm worker
41401 fiscal economics analyst	80022 fish farmer
11101 fiscal projections consultant	94142 fish flaker - fish processing
65201 fish and chips preparer	92012 fish freezing foreman/woman
22111 fish and fish products inspector	92012 fish freezing supervisor
22113 fish and game warden	95107 fish freezing worker - fish processing
22113 fish and wildlife officer	94142 fish fryer - fish processing
95107 fish bin worker - fish processing	94143 fish grader
94142 fish boner - fish processing	85102 fish hatchery attendant
95107 fish briner - fish processing	80022 fish hatchery manager
94142 fish broiler - fish processing	80022 fish hatchery operator
94142 fish by-products processor	80022 fish hatchery supervisor
94142 fish cake former - fish processing	85102 fish hatchery tagger
94142 fish cake maker - fish processing	22110 fish hatchery technician
94142 fish cake maker	85102 fish hatchery worker - aquaculture
94142 fish cake processor - fish processing	85102 fish hatchery worker
94142 fish canning machine operator - fish processing	94142 fish header - fish processing
92012 fish canning, curing and packing workers foreman/woman	95107 fish hopper filling worker
94142 fish cleaner and cutter - fish processing	95107 fish icer - fish processing
94142 fish cook - fish processing	22111 fish inspector
95107 fish culler	22111 fish inspector-grader
80022 fish culture manager	64100 fish market salesperson
80022 fish culture operator	94219 fish net making machine operator
22110 fish culturist	94142 fish offal processor - fish processing
94142 fish curer - fish processing	94142 fish oil extractor tender - fish processing
92012 fish curing and canning foreman/woman	95107 fish packer - fish processing
95107 fish curing worker	94142 fish paste grinder - fish processing
94142 fish cutter - fish processing	95107 fish pickler - fish processing
65202 fish cutter - retail or wholesale	95107 fish plant labourer
94142 fish cutting machine operator - fish processing	94142 fish plant machine operator - fish processing
94142 fish cutting machine setter - fish processing	94142 fish plant worker
95107 fish dipper - fish processing	92012 fish preparation foreman/woman
94142 fish dresser - fish processing	94142 fish presser operator - fish processing
94142 fish dryer and grinder tender - fish processing	95107 fish processing labourer
	95107 fish processing plant labourer

92012 fish processing supervisor	22113 fishing area supervisor
94142 fish processor	60031 fishing camp operator
22111 fish products inspection supervisor	64322 fishing guide
22111 fish products inspector	53123 fishing lure designer
94142 fish products maker - fish processing	83120 fishing master
92012 fish reduction foreman/woman	80010 fishing operations manager
22110 fish roe technician	94219 fishing reel assembler
95107 fish salter - fish processing	94219 fishing rod assembler
64100 fish shop salesperson	94219 fishing rod finisher
94142 fish skinner operator - fish processing	94219 fishing rod guide winder tender
94142 fish smoke chamber tender - fish processing	54100 fishing seminar leader
94142 fish smoker - fish processing	94219 fishing tackle maker
95107 fish sorter	83101 fishing tool operator - oil field services
94142 fish splitter - fish processing	83120 fishing vessel boatswain
94142 fish stick machine tender - fish processing	83120 fishing vessel bo'sun
85102 fish tagger	83120 fishing vessel captain
94142 fish trimmer - fish processing	84121 fishing vessel checkerman/woman
95107 fish weigher	72603 fishing vessel chief engineer
84121 fishboat deckhand	84121 fishing vessel crewman/woman
94142 fish-cleaning machine tender - fish processing	83120 fishing vessel deck officer
41400 fisheries analyst	84121 fishing vessel deckhand
22113 fisheries inspector supervisor	72603 fishing vessel engineer officer
22113 fisheries inspector	83120 fishing vessel first mate
22113 fisheries observer	84121 fishing vessel icer
21102 fisheries oceanographer	83120 fishing vessel master
22113 fisheries officer supervisor	83120 fishing vessel mate
22113 fisheries officer	83120 fishing vessel navigation officer
41400 fisheries program officer	84121 fishing vessel netmender
22110 fisheries technician	84121 fishing vessel rollerwoman
22110 fisheries technologist	83120 fishing vessel second mate
83121 fisherman/woman	84121 fishing vessel skiffman/woman
22110 fishery bacteriological technician	83121 fishing vessel skipper
22110 fishery bacteriological technologist	12203 fishing vessels appraiser
21110 fishery bacteriologist	65202 fishmonger - retail
22113 fishery officer	65202 fishmonger
40011 fishery policy director - government services	94219 fish-net-making machine tender
21110 fishery products bacteriologist	94142 fish-processing machine operator
40011 fishery programs manager - government services	94142 fish-processing machine tender
92012 fish-freezing and storage foreman/woman	95107 fish-processing plant handler
63200 fishing and merchant vessel cook	90010 fish-processing plant manager
	94142 fish-processing plant worker

94142 fish-skinning machine operator - fish processing	94140 flaking roll tender - food and beverage processing
50012 fitness administration director - government	94100 flame annealing tender - primary metal processing
41406 fitness analyst	95101 flame cutter helper - metal products manufacturing
54100 fitness appraiser	94105 flame cutting machine operator - metal fabrication
50012 fitness centre manager	94105 flame cutting tracer machine operator - metal fabrication
50012 fitness club manager	94105 flame hardening machine setter
41406 fitness consultant	72106 flame-brazing machine operator
41406 fitness coordinator	72106 flame-brazing machine setter
70012 fitness facility manager	94219 flare assembler
54100 fitness instructor	72106 flash butt welder
54100 fitness leader - aerobic fitness	52120 flash designer
54100 fitness leader - aquatic fitness	94205 flat battery maker
54100 fitness leader - fitness for older adults	94205 flat cell maker - electrical equipment manufacturing
54100 fitness leader - strength and conditioning	94205 flat dry battery assembler
54100 fitness leader	94205 flat dry cell assembler
41406 fitness policy analyst	94205 flat dry cell machine tender - electrical equipment manufacturing
41406 fitness program consultant	94131 flat knitter
50012 fitness programs director	94131 flat knitting machine knitter
41406 fitness programs supervisor	94219 flat optical element maker - non-prescription
54100 fitness supervisor	73110 flat roofer
72104 fitter - metal fabrication	94111 flatbed press operator - plastic manufacturing
72102 fitter - sheet metal working	73401 flat-bed press set-up operator
72104 fitter - shipbuilding	73300 flatbed truck driver
72104 fitter - structural metal fabrication	94219 flatware buffing machine set-up operator
94200 fitter and adjuster - motor vehicle manufacturing	65320 flatwork finisher - laundry and dry cleaning
75110 fitter helper - construction	65320 flatwork folder - laundry and dry cleaning
95101 fitter helper - metal products manufacturing	65320 flatwork ironer - laundry and dry cleaning
72104 fitter lead hand - structural metal and platework	94140 flavour maker - food and beverage processing
74200 fitter tracks - railway	94140 flavour maker - tobacco processing
94203 fitter-assembler - electrical control equipment	94140 flavourer - tobacco processing
94203 fitter-assembler - industrial electrical equipment	94140 flavouring mixer - tobacco processing
94103 fitting lathe operator - concrete products	60020 flea market concession operator
94133 fitting room inspector - fabric products manufacturing	60020 flea market manager
72106 fit-up welder	94130 fleecer - textile manufacturing
94210 fixture assembler	94130 fleecing machine operator - textile manufacturing
22211 fixture designer	
94219 flag-making machine operator	
75110 flagperson	
94129 flaker operator - wood processing	
94110 flaker tender - chemical processing	

94130 fleecing machine tender - textile manufacturing	31301 float nurse
64101 fleet sales representative	94102 float operator - glass forming
94130 fleshing machine tender - hide and pelt processing	72500 floating crane operator
94219 fletcher - sporting goods manufacturing	95109 flocker - garment manufacturing
94151 flexible plate engraver	94130 flocking machine tender
94151 flexible printing plate moulder	22233 flood damage inspector - construction sites
94151 flexible-plate hand engraver	21120 flood damage inspector
94122 flexo-folder operator - paper converting	72014 floor and wall covering installers foreman/woman
94151 flexographic moulder-proofer	95109 floor attendant - bindery
73401 flexographic press adjuster	95109 floor attendant - printing
73401 flexographic press operator	65310 floor cleaner
73401 flexographic press set-up technician - printing	65102 floor clerk - retail
73401 flexographic pressman/woman	65102 floor clerk - supermarket
94151 flexographic printing cylinder assembler	75110 floor coverer helper
64312 flight agent	72014 floor coverer-contractor
64311 flight attendant	72014 floor covering contractor
41210 flight attendants instructor	72014 floor covering foreman/woman
14405 flight crew scheduler	73113 floor covering installer apprentice
12013 flight crew scheduling supervisor	73113 floor covering installer
12013 flight crew supervisor	73113 floor covering mechanic
72601 flight dispatch assistant	72014 floor covering supervisor
72601 flight dispatcher	60020 floor coverings and draperies store manager
72600 flight engineer	64100 floor coverings salesperson - retail
72600 flight instructor	52119 floor director - broadcasting
72404 flight line mechanic	51120 floor director - performing arts
70020 flight operations director	95105 floor helper - textile processing
22231 flight operations inspector	94200 floor inspector - motor vehicle manufacturing
70020 flight operations manager	73113 floor layer
72601 flight operations officer	75110 floor layer's helper
64311 flight purser	52119 floor manager - broadcasting
14405 flight scheduler	60020 floor manager - retail
70020 flight schedulers manager	94112 floor mat press tender - rubber products manufacturing
64311 flight service director	94101 floor moulder - foundry
72601 flight service specialist (FSS)	75110 floor sander and finisher helper
72600 flight simulator instructor	73200 floor sander and finisher
22310 flight simulator technician	73200 floor sander and polisher
72404 flight test aircraft mechanic	73200 floor sander
72404 flight test inspector	73113 floor sheeting layer
94102 float chief operator - glass forming	65310 floor sweeper
14100 float clerk	

72310 floor systems carpenter	21100 fluid physicist
95109 floor tile edge grinder	94140 flumer - food and beverage processing
73113 floor tile layer	95106 flumer helper - food and beverage processing
11103 floor trader - commodity exchange	94202 fluorescent lighting fixture assembler
94212 floorcovering inset cutter - plastic manufacturing	22230 fluorescent penetrant testing technician
75110 floorcovering installer helper	94201 fluorescent screen former
75110 floorcovering mechanic helper	22230 fluoroscope tester
94150 floorcovering printer	95100 fluorspar flux maker - primary metal processing
85111 floorhand - offshore drilling rig	94100 fluorspar recovery tender
85111 floorhand - oil and gas drilling	65320 fluting machine operator - laundry and dry cleaning
85111 floorhand - service rig	94124 fluting machine operator - woodworking
94123 flooring grader - wood processing	51122 flutist
85111 floorman/woman - offshore drilling rig	94100 flux-mixing machine tender - metal processing
85111 floorman/woman - oil and gas drilling	75201 flyer distributor
53124 floral arrangements designer	72400 flyer repairer - textile manufacturing
53124 floral designer	72600 flying instructor
22114 floriculturist	40020 flying school manager
64100 florist - retail	94105 flying shear operator - metal fabrication
64100 florist salesperson	53111 flyman/woman
64100 florist shop salesperson	94212 foam cushion production repairer - plastic products manufacturing
95100 flotation cell helper - primary metal and mineral products processing	94212 foam cushion reinforcer - plastic products manufacturing
94100 flotation cell tender - primary metal processing	72014 foam insulation foreman/woman
94140 flour blender operator - food and beverage processing	72014 foam insulators foreman/woman
22111 flour inspector	94205 foam machine operator - electrical equipment manufacturing
92012 flour mill foreman/woman	94111 foam plastic-producing machine operator
94140 flour mill machine operator	94111 foam plastic-spraying machine operator
90010 flour mill manager	92013 foam products inspection foreman/woman - rubber manufacturing
94140 flour miller	92013 foam products inspection supervisor - rubber products manufacturing
92012 flour milling team supervisor	94112 foam rubber goods inspector
95106 flour mixer helper	94112 foam rubber machine operator
94140 flour purifier	94112 foam rubber maker
92012 flour-and-grain mill foreman/woman	94112 foam rubber mattress inspector
80021 flower grower	94112 foam rubber mixer
60020 flower shop manager	94112 foam rubber press operator
60020 flower store manager	72321 foamed insulation applicator
94103 flowerpot pressman/woman - clay products	53111 focus puller
95102 flue cleaner - utilities	94107 foil rewinder
95100 flue dust labourer - primary metal and mineral products processing	
21301 fluid mechanics engineer	

95100 foil roller helper - primary metal processing	62101 food buyer
95100 foil separator - primary metal processing	21101 food chemist
94152 foil stamper - printing	62020 food concession supervisor
94219 foiling machine tender	65201 food concession worker
94152 foil-stamping platen press operator	41403 food consultant - home economics
94100 foil-winding machine operator - primary metal processing	14403 food controller - inventory
94100 foil-winding machine operator	65201 food counter attendant
94112 folded gasket maker - rubber products manufacturing	75201 food delivery driver
65320 folder - laundry and dry cleaning	65109 food demonstrator - retail
94152 folder operator - printing	21120 food inspector
95109 folderman/woman - printing	64100 food preparer - grocery store
95109 folding machine feeder - printing	65201 food preparer
94219 folding machine operator - garment manufacturing	21399 food processing engineer
94152 folding machine operator - printing	95106 food processing labourer
65320 folding machine tender - laundry and dry cleaning	22100 food processing quality control technician
94122 folding machine tender - paper converting	22100 food processing quality control technologist
94130 folding machine tender - textile manufacturing	92012 food product grader supervisor
53120 folk dance teacher	95106 food product sampler
53120 folk dancer	92012 food product testers supervisor
51122 folk singer	90010 food production manager
53120 folkloric dance teacher	21110 food products bacteriologist
53120 folkloric dancer	22111 food products inspector
14403 food and beverage control clerk - inventory	64101 food products sales representative
92012 food and beverage processing foreman/woman	21110 food products scientist
94143 food and beverage processing grader	10012 food purchasing director
92012 food and beverage processing supervisor	10012 food purchasing manager
90010 food and beverage production manager	21110 food research scientist
65200 food and beverage server	65201 food runner
60030 food and beverage service manager	40010 food safety programs manager - government services
65201 food and beverage service runner assistant	41200 food science professor - university
65201 food and beverage services attendant	41200 food sciences department chairman/woman - university
32129 food and nutrition technician - dietetics	41200 food sciences department chairperson - university
31103 food animal veterinarian	41200 food sciences department head - university
65201 food assembler - fast food	21110 food scientist
62020 food assembly supervisor	65201 food service attendant
22110 food bacteriological technician	65201 food service counter attendant
22110 food bacteriological technologist	75201 food service driver
21110 food bacteriologist	65201 food service helper
	62020 food service supervisor

65201 food service worker	94219 footwear parts trimmer - footwear manufacturing
60030 food services manager	94111 footwear presser - plastic manufacturing
64101 food services sales representative	64100 footwear salesperson - retail
94140 food slicer - food and beverage processing	94132 footwear sewer
65100 food store cashier	95104 footwear sorter - rubber products manufacturing
64100 food store clerk - retail	80020 forage crop farmer
60020 food store department manager - retail	72420 forced air furnace installer (except gas)
60020 food store manager	42200 foreclosure clerk
62010 food store supervisor	42200 foreclosure paralegal
53123 food stylist	13111 foreclosures legal assistant
22100 food technician	51113 foreign affairs reporter
22100 food technologist	51114 foreign broadcast translator
21399 food technology engineer	51113 foreign correspondent
92012 food testing foreman/woman - food and beverage processing	14201 foreign currency accounts adjuster - financial sector
92012 food testing supervisor	14201 foreign exchange clerk - financial sector
94140 food-colouring equipment operator	11103 foreign exchange dealer
95106 food-cooling pan tender	64400 foreign exchange teller - financial services
94140 food-flavouring equipment tender	11103 foreign exchange trader
94140 food-mixing machine tender	11109 foreign interbanking arrangements officer
94204 food-packaging equipment assembly inspector	51110 foreign news broadcasting editor
95106 food-processing equipment cleaner	51113 foreign news correspondent
72405 food-processing machine fitter	51110 foreign news service editor
90010 food-processing plant manager	51114 foreign news translator
31301 foot care nurse	14201 foreign remittance clerk - financial sector
31209 foot specialist	41407 foreign service officer
53201 football coach	72602 foreign-going first mate
53200 football player	72602 foreign-going second mate
53201 football scout	92021 foreman/woman - electronic equipment manufacturing
53201 football team coach	92020 foreman/woman - motor vehicle manufacturing
53200 footballer	92011 foreman/woman - petroleum, gas and chemical processing
84100 footman/woman - underground mining	72023 foreman/woman - railway transport
92015 footwear finishing foreman/woman	92015 foreman/woman - textile processing
92013 footwear inspection foreman/woman - rubber manufacturing	72021 foreman/woman, railway maintenance-of-way
92013 footwear inspection supervisor - rubber products manufacturing	21101 forensic chemist
92015 footwear manufacturing foreman/woman	22100 forensic examiner - alcohol
95109 footwear manufacturing labourer	22100 forensic handwriting expert
95104 footwear moulding press feeder - rubber products manufacturing	22100 forensic laboratory technician
	31100 forensic pathologist

53110 forensic photographer	82010 forestry conservation contractor
85103 forest assistant nursery	22112 forestry conservation research technician
21110 forest ecologist	22112 forestry conservation research technologist
41401 forest economist	22112 forestry conservation technician
21111 forest engineer	22112 forestry conservation technologist
22112 forest engineering technician	84111 forestry conservation worker
22112 forest engineering technologist	22112 forestry crew coordinator
22112 forest extension technician	82010 forestry crew supervisor
22112 forest fire officer	84111 forestry crew worker
22112 forest fire ranger	84111 forestry crewman/woman
22112 forest fire technician	62100 forestry equipment sales representative
84111 forest firefighter	22112 forestry extension technician
22112 forest firefighting crew leader	82010 forestry foreman/woman
22112 forest inventory resource officer	85120 forestry labourer
21111 forest nursery forester	62100 forestry machinery sales representative
85103 forest nursery labourer	80010 forestry operations manager
82010 forest operations supervisor	72600 forestry patrol pilot
21110 forest pathologist	40011 forestry policy director - government services
22112 forest planning technician	41200 forestry professor - university
92014 forest products processing supervisor	40011 forestry programs manager - government services
72999 forest products saw filer	82010 forestry supervisor
22100 forest products technologist	22112 forestry technician supervisor
22112 forest protection coordinator	22112 forestry technician
22113 forest ranger - wildlife management	22112 forestry technologist
22112 forest regional inventory technician	84111 forestry worker - logging
22112 forest research technologist	84111 forestry worker
40011 forest resource analysis chief - government services	72400 forge equipment repairer
22112 forest resource management technician	95101 forge helper
22112 forest resource technician	94105 forge manipulator operator
41401 forest resources economist	92023 forge shop foreman/woman - metal products manufacturing
73400 forest road machine operator	72400 forge shop machinery mechanic
72600 forest spray pilot	72400 forge shop machinery repairer
22112 forest survey technician	95101 forger helper
22112 forest technician	92023 forgers foreman/woman - metal products manufacturing
84110 forest worker - logging	94105 forging air hammer operator
21111 forester	72101 forging die finisher
80010 forestry and logging manager	72101 forging die maker
22112 forestry conservation and preservation technician	94105 forging machine operator group leader
22112 forestry conservation and preservation technologist	94105 forging machine operator

94105 forging machine operators lead hand	83110 forwarder operator - logging
94105 forging machine setter	51101 fossil conservator
94105 forging machine set-up man/woman	51101 fossil curator
94105 forging press operator	53100 fossil recovery and reparation technician
94105 forging press tender	44100 foster father
94105 forging roll operator	44100 foster mother
22230 forging tester	44100 foster parent
92023 forging-machine operator foreman/woman	75110 foundation dampproofing helper
72423 forklift mechanic	73402 foundation drill operator - construction
75101 forklift operator	75110 foundation drill operator helper
75101 forklift truck operator	73402 foundation drill operator
72310 form builder - carpentry	21300 foundation engineer
72013 form builders foreman/woman	94133 foundation garments inspector
72310 form carpenter	22300 foundation technologist
52120 form layout designer	75110 foundation waterproofing - construction
75110 form remover - construction	21322 foundry engineer
75110 form stripper - construction	92010 foundry foreman/woman
65200 formal service waiter/waitress	94101 foundry furnace operator
84101 formation fracturing operator - oil field services	95100 foundry helper - primary metal processing
84101 formation fracturing operator	22101 foundry laboratory technician
14112 formatter operator - typesetting	95100 foundry labourer
94107 former, metal nuts	90010 foundry manager
94103 forming machine operator - concrete, clay and stone products	95101 foundry mould finisher
94105 forming machine operator - metal fabrication	94101 foundry mouldmaker
94105 forming press operator - metal fabrication	94101 foundry pourer
94105 forming roll set-up operator - metal fabrication	94101 foundry sand mixer
94105 forming roll tender - metal fabrication	94104 foundry sand tester
94205 forming room operator - electrical equipment manufacturing	92010 foundry supervisor
94102 forming-cutting operator - glass products	95100 foundry worker - primary metal processing
14301 forms control clerk	94101 foundry worker
52120 forms designer	94219 fountain pen inspector
11201 forms management analysts supervisor	94219 fountain pen maker
13100 forms management officer	94121 fourdrinier machine operator - pulp and paper
95104 formula weigher - rubber and plastic products manufacturing	72603 fourth engineer - water transport
22100 formulation technician	94121 fourth hand - pulp and paper
94110 formulations blender operator - chemical processing	92100 fourth-class power engineer
65229 fortune teller	92100 fourth-class stationary engineer
95109 forwarder - printing	94219 foxer - footwear
	94112 foxer - rubber goods
	84101 frac driver - oil field services
	93101 fractionator operator - petroleum

93101 fractionator operator	75101 freight car loader
33109 fracture room attendant	75101 freight car unloader
82021 fracturing supervisor	75211 freight car weigher
94200 frame assembler - motor vehicle manufacturing	14400 freight checker
53100 frame fitter - museums and art galleries	70020 freight company manager
94107 frame machine operator, tents	70020 freight division manager
94210 frame maker - furniture manufacturing	65329 freight elevator operator
94210 frame moulding finisher - furniture manufacturing	70020 freight forwarder
94210 frame moulding painter - furniture manufacturing	14400 freight forwarding clerk
94130 frame spinner - textile manufacturing	13201 freight forwarding logistician
94124 frame table operator - woodworking	70020 freight forwarding manager
72205 frame wirer - telephone	64101 freight forwarding services sales representative
72205 frameman/woman - telecommunications	12013 freight forwarding supervisor
65320 framer - laundry and dry cleaning	13201 freight forwarding technician
53100 framer - museum and art gallery	75101 freight handler (except air transport)
75110 framer helper - construction	72021 freight handling foreman/woman
72310 framer-carpenter	75101 freight loader (except air transport)
72013 framers foreman/woman	72021 freight loading foreman/woman
72310 framing carpenter	14400 freight receiver clerk
64100 framing sales consultant - retail	14400 freight receiver
53100 framing technician	14400 freight receiving clerk
94124 frazer - woodworking	64101 freight sales agent
94124 frazing machine operator - woodworking	64101 freight services sales representative
13100 freedom of information officer	14400 freight shipper
52114 freelance announcer	12013 freight supervisor
94112 freeze tumbler tender - rubber products manufacturing	72021 freight terminal foreman/woman
94140 freeze-dry food processor	64101 freight traffic agent
94140 freezer operator - food and beverage processing	13201 freight traffic coordinator
95106 freezer worker - food and beverage processing	70020 freight traffic manager
95106 freezing worker - food and beverage processing	12013 freight traffic scheduling supervisor
12201 freight adjuster - insurance	12013 freight traffic supervisor
64313 freight agent - railway	73311 freight train brakeman/woman
64313 freight agent (except airline)	73311 freight train conductor
74202 freight attendant - air transport	73310 freight train engineer
75211 freight car checker - railway	72023 freight train road foreman/woman
65311 freight car cleaner	73300 freight truck driver
74200 freight car distributor - railway yard	75101 freight unloader (except air transport)
22231 freight car inspector	14200 freight-rate clerk
	14200 freight-rate revision clerk
	41221 French as a second language elementary school teacher

41221 French as a second language teacher - elementary school	62101 fruit buyer
41220 French as a second language teacher - secondary school	94140 fruit cooker - food and beverage processing
41210 French as a second language teacher (except elementary, high school or university)	85101 fruit examiner - harvesting
51110 French editor	82030 fruit farm foreman/woman
41221 French immersion teacher - elementary school	85101 fruit farm labourer
41200 French language professor - university	80020 fruit farm operator
63202 French pastry baker - retail	85101 fruit farm worker
41221 French teacher - elementary school	80020 fruit farmer
41220 French teacher - secondary school	92012 fruit grading foreman/woman
64322 freshwater angling guide	80020 fruit grower
94122 friction paint machine tender - paper converting	85101 fruit harvest worker
64314 front desk agent	85101 fruit harvester
65100 front desk cashier	85101 fruit harvesting labourer
14101 front desk clerk (except hotel)	22111 fruit inspector
64314 front desk hotel clerk	94140 fruit mixer - food and beverage processing
60031 front desk hotel manager	85101 fruit or vegetable picker
60031 front desk manager - accommodation services	85101 fruit packer - farm
73400 front end loader operator	95106 fruit peeler - food and beverage processing
60020 front end manager - retail	85101 fruit picker
62010 front end supervisor - retail	95106 fruit preparer - food and beverage processing
72011 front line supervisor - power line maintenance	94140 fruit preserver - food and beverage processing
64314 front office hotel clerk	94140 fruit press tender - food and beverage processing
73311 front-end brakeman/woman	94140 fruit presser
72410 front-end mechanic	80020 fruit producer
21234 front-end web developer	64100 fruit seller
94140 frosting maker - food and beverage processing	85101 fruit sorter - farm
94140 frosting mixer - food and beverage processing	95106 fruit splitter
94142 frozen fish cutter - fish processing	85101 fruit tree pruner
95106 frozen food packer	85101 fruit tree thinner
95106 frozen meat cutter helper	92012 fruit-and-vegetable canning, preserving and packing workers foreman/woman
94140 frozen stick novelty maker - food and beverage processing	60020 fruits and vegetables manager - retail
94140 frozen-dough-baking machine tender	94140 fry cook - food and beverage processing
95106 fruit and vegetable cleaner - food and beverage processing	85102 fry marker - fishing
94143 fruit and vegetable grader - food and beverage processing	85102 fry marker
22111 fruit and vegetable inspection centre supervisor	85102 fry tagger
94140 fruit and vegetable machine operator	94140 fryer operator - food and beverage processing
22111 fruit and vegetables inspector	72410 fuel and electrical systems technician - motor vehicle
	75211 fuel and sand operator - railway transport
	90011 fuel distribution manager

94219 fuel filter assembler	60040 fur cleaning plant manager
93101 fuel gas treater	62029 fur cleaning supervisor
72401 fuel injection unit servicer - diesel	95105 fur cutter
94129 fuel log maker - wood processing	53123 fur designer
73300 fuel oil truck driver	94130 fur dresser - hide and pelt processing
94204 fuel pump assembler	92015 fur dressing foreman/woman - hide and pelt processing
94219 fuel rod assembler	92015 fur dressing foreman/woman
94112 fuel tank form builder	92015 fur dressing supervisor
22100 fuel technician	85100 fur farm worker
75211 fuel truck driver helper	80020 fur farmer
21320 fuels engineer	85100 fur farming worker
65102 fulfillment associate	94130 fur floor worker - hide and pelt processing
41200 full professor - university	53125 fur garment patternmaker
21234 full stack web developer	65320 fur glazer - laundry and dry cleaning
94130 fuller - textile manufacturing	94132 fur goods sewer
94130 fulling machine operator - textile manufacturing	94133 fur grader
94130 fulling mill operator - textile manufacturing	92015 fur hatmaking department foreman/woman
94100 fume scrubber operator	65320 fur ironer - laundry and dry cleaning
73202 fumigator	65320 fur ironer glazer - laundry and dry cleaning
65211 fun house operator	65320 fur ironing machine operator - laundry and dry cleaning
21221 functional consultant - information systems	65320 fur lining presser - laundry and dry cleaning
11202 fundraiser	65320 fur lusterizer - laundry and dry cleaning
11202 fundraising campaign consultant	94133 fur matcher - fur products manufacturing
10022 fundraising campaign manager	94130 fur mixer
11202 fundraising campaign organizer	53125 fur patternmaker
11202 fundraising consultant	94130 fur pelt dresser - hide and pelt processing
11202 fundraising organizer	94130 fur plucker - hide and pelt processing
75200 funeral chauffeur	92015 fur products manufacturing foreman/woman
62201 funeral director	53125 fur products patternmaker
75200 funeral driver	85100 fur ranch labourer
65329 funeral home attendant	64200 fur remodeller
62201 funeral home director	64200 fur repair estimator
62201 funeral services director	64200 fur repairman/woman
00014 funeral services general manager	64100 fur salesperson - retail
94201 funnel coater - electronic equipment manufacturing	94132 fur sewer
94130 fur blender	94132 fur sewing machine operator
94219 fur blocker	94133 fur sorter
94130 fur blower - textile manufacturing	65320 fur steamer
62101 fur buyer	65329 fur storage attendant
65320 fur cleaner - laundry and dry cleaning	

64200 fur tailor	94210 furniture and fixtures inspector - furniture manufacturing
64101 fur trader	94210 furniture and fixtures manufacturing inspector
85104 fur trapper	92022 furniture and fixtures manufacturing supervisor
65329 fur vault custodian	12102 furniture and furnishings purchaser
80020 fur-bearing-animal farmer	51101 furniture and wooden objects conservator
65320 fur-drummer machine operator - laundry and dry cleaning	12203 furniture appraiser
92100 furnace boiler operator	94210 furniture assembler
72106 furnace brazer	94210 furniture assembly final inspector
95100 furnace cleaner - primary metal and mineral products processing	92022 furniture assembly foreman/woman - furniture and fixtures manufacturing
65311 furnace cleaner	92022 furniture assembly foreman/woman
94104 furnace combustion tester - primary metal processing	94210 furniture assembly inspector - furniture manufacturing
72302 furnace converter	94210 furniture buffer - furniture finishing
94110 furnace cooler - chemical processing	72311 furniture cabinetmaker
94202 furnace electrode inspector	94210 furniture caner
95100 furnace feeder - primary metal and mineral products processing	94210 furniture checker
95100 furnace helper	92022 furniture components sanding department foreman/woman
72420 furnace installer and repairer (except gas)	95109 furniture crater
72020 furnace installers foreman/woman	22211 furniture designer
72320 furnace lining bricklayer	94210 furniture enameller
95100 furnace loader - primary metal and mineral products processing	90010 furniture factory manager
72420 furnace maintenance mechanic (except gas)	94210 furniture finisher and repairer
72420 furnace mechanic (except gas)	94210 furniture finisher
92010 furnace operations foreman/woman - primary metal and mineral products processing	92022 furniture finishers foreman/woman - furniture and fixtures manufacturing
94101 furnace operator - foundry	92022 furniture finishers supervisor
93100 furnace operator - primary metal and mineral products processing	94210 furniture finishing decorator
72420 furnace repairer (except gas)	92022 furniture finishing foreman/woman - furniture and fixtures manufacturing
75119 furnace repairer helper	94210 furniture finishing inspector
72420 furnace repairman/woman (except gas)	94210 furniture finishing varnisher
95100 furnace skimmer - primary metal and mineral products processing	94210 furniture fitter-up - furniture manufacturing
72106 furnace solderer	92022 furniture gluers foreman/woman - furniture and fixtures manufacturing
95100 furnace tapper - primary metal processing	94210 furniture inspector
64100 furniture and appliances salesperson - retail	92022 furniture inspectors foreman/woman
94210 furniture and fixtures assembler	75101 furniture loader-unloader
94210 furniture and fixtures assembling inspector	95109 furniture manufacturing labourer
94210 furniture and fixtures assembly inspector	75211 furniture mover helper
	75101 furniture mover

95109 furniture packer	64321 gambling table operator
95109 furniture panel coverer - furniture assembly	95106 gambreler - food and beverage processing
94210 furniture parts inspector	65211 game booth operator
94210 furniture polisher - furniture finishing	65211 game concession operator
94210 furniture refinisher	51113 game critic
94210 furniture refinishing varnisher	52120 game designer
94210 furniture repairer	22113 game officer
94210 furniture reproducer	52114 game show host/hostess
64100 furniture sales consultant - retail	85104 game trapper
64100 furniture salesperson	22113 game warden
94210 furniture shipping inspector	53200 gamer - video games
94210 furniture stainer	64321 gaming table dealer
60020 furniture store manager	64321 gaming table operator - casino
94210 furniture stripper	62022 gaming tables supervisor
63221 furniture upholsterer	74200 gandy dancer - railway
94210 furniture varnisher	94112 gang press operator - rubber products manufacturing
95109 furrier shop labourer	94124 gang rip saw operator - woodworking
64200 furrier	94120 gang sawyer - sawmill
92015 furriers foreman/woman	94103 gang sawyer - stone products manufacturing
92015 furriers supervisor	94124 gang sawyer - woodworking
94130 fur-shaving machine tender - hide and pelt processing	72500 gantry crane operator
94130 furskin dresser - hide and pelt processing	65329 garage attendant
94110 fuse maker - chemical processing	73200 garage door installer
93200 fuselage assembler	65329 garage jockey
93200 fuselage fitter - aircraft assembly	72410 garage mechanic
10020 futures research manager	72020 garage supervisor
10020 futures research services manager	43202 garbage collection inspector
11103 futures trader	74205 garbage collector - driver
G	75212 garbage collector
52119 gaffer	75212 garbage receptacle maintainer
65329 gallery attendant	74205 garbage truck driver - public works
95101 galvanizer helper	74205 garbage truck driver
94213 galvanizer	75212 garbage truck loader
92010 galvanizing foreman/woman - metal and mineral products processing	62200 garde-manger chef
92023 galvanizing foreman/woman	60020 garden centre manager - retail
94213 galvanizing machine operator	94204 garden machinery assembler
41301 gambling addictions counsellor	64100 garden supplies sales clerk
41301 gambling addictions therapist	92023 garden tractor assembly foreman/woman
	72429 garden tractor repairer
	85121 gardener helper

22114 gardener	72421 gas appliance repairer - customer service
85121 gardening helper	72421 gas appliance repairer
64200 garment alterationist	72421 gas appliance servicer - customer service
95109 garment and hosiery boner	72421 gas appliance servicer
95109 garment bagger - garment manufacturing	65101 gas bar attendant (except self-service)
94132 garment braid maker - garment manufacturing	72106 gas brazer
94132 garment braider - garment manufacturing	13200 gas broker
65320 garment cleaner - laundry and dry cleaning	22100 gas chromatographer
53123 garment designer	93101 gas control coordinator
65320 garment dyer - laundry and dry cleaning	93101 gas control operator
95109 garment factory labourer	93101 gas controller
94133 garment final inspector	72302 gas customer servicer
64200 garment fitter	93101 gas dispatcher
95109 garment folder - garment manufacturing	92011 gas distribution foreman/woman
95109 garment folder	00015 gas distribution general manager
95109 garment fringer - garment manufacturing	90011 gas distribution manager
94133 garment inspector	80010 gas field operations manager
94131 garment looper	93101 gas field operator
95109 garment manufacturing final assembler	93101 gas field production operator
92015 garment manufacturing foreman/woman	92011 gas field supervisor
94133 garment manufacturing inspector	72421 gas fireplace servicer
95105 garment marker	72302 gas fitter apprentice
95109 garment mender - garment manufacturing	95102 gas fitter helper - utilities
94132 garment mender - sewing	72302 gas fitter trainee
95109 garment notcher - garment manufacturing	72302 gas fitter
95109 garment packer - garment manufacturing	72302 gas fitter-installer
95109 garment parts sorter - garment manufacturing	72012 gas fitters foreman/woman
53125 garment patternmaker	72012 gas fitters supervisor
95109 garment plant labourer	94204 gas furnace assembler
65102 garment price marker	65101 gas jockey
64200 garment repair seamstress	74204 gas leak inspector
95109 garment ripper - garment manufacturing	74204 gas leak locator
64200 garment sample maker	74204 gas leak surveyor
95109 garment sorter - garment manufacturing	72012 gas line fitters foreman/woman
95109 garment steamer - garment manufacturing	75110 gas line fuser
94130 garment steamer tender	93101 gas liquefaction and regasification plant operator
95109 garment waterproofer - garment manufacturing	72302 gas main fitter
64100 garments and other textile products sales representative - retail	74204 gas main leak inspector
94130 garnett machine tender - textile manufacturing	74204 gas main leak locator
72106 gas and arc welder	74204 gas main leakage tester

74204 gas main maintenance and repairman/woman	95102 gasoline catalyst operator helper
74204 gas maintenance worker	93101 gasoline catalyst operator
94219 gas meter assembler	94204 gasoline engine assembler
74204 gas meter installer	94204 gasoline pump calibrator
75119 gas meter repairer helper	94204 gasoline pump tester
73209 gas meter repairer	73300 gasoline truck operator
73209 gas meter servicer	72429 gasoline-powered lawn mower mechanic
73209 gas meter tester	72429 gasoline-powered lawn mower repairer
75110 gas pipe fuser	72429 gasoline-powered snow blower repairer
72302 gas pipe mechanic	72429 gas-powered small equipment mechanic
72302 gas pipefitter	72106 gas-shielded arc welder
75110 gas pipelayer - construction	72106 gas-shielded arc welding machine operator
93101 gas pipeline operator	93101 gas-treating unit operator
92011 gas plant foreman/woman	31100 gastroenterologist
93101 gas plant operator	75211 gateman/woman - railway transport
93101 gas pressure regulator	64410 gateman/woman
93101 gas processing compressor operator	94102 gatherer - glass products manufacturing
93101 gas processing controller	95109 gathering machine feeder - printing
93101 gas recovery operator	94152 gathering machine operator - printing
74204 gas regulator	94152 gathering machine set-up operator - printing
14404 gas service crew dispatcher	72101 gauge maker - tool and die
72012 gas service foreman/woman	94143 gauger - wineries
72012 gas service supervisor	94219 gauze pad machine tender
72302 gas servicer	94106 gear cutter
65101 gas station attendant (except self-serve)	94106 gear grinder
60020 gas station manager	72100 gear inspector-machinist
72421 gas stove repairer	72100 gear tester-machinist
90011 gas supply manager	94204 gear train assembler
90011 gas supply operations manager	94204 gearbox assembler
72302 gas technician	94204 gearcase assembler
83101 gas tester - oil field services	94204 gearcase tester
92011 gas transmission supervisor	94106 gear-hob-milling machine set-up operator
72404 gas turbine engine mechanic	94106 gear-lapping machine operator
72400 gas turbine machinery industrial mechanic	94106 gear-milling machine set-up operator
72400 gas turbine repairer	94106 gear-rolling machine operator
95102 gas utility labourer	94106 gear-shaper operator
74204 gas utility operator	94111 gel coat sprayer operator - plastic manufacturing
21301 gas utilization mechanical engineer	94140 gelatin evaporator filter operator
72106 gas welder	94140 gelatin extractor tender
72302 gas works troubleshooter	94140 gelatin powder mixer
95102 gasket coater	

95106 gelatin stock cooker attendant	00015 general manager - goods production, utilities, transportation and construction
94140 gelatin stock maker	00011 general manager - government services
94140 gelatin-blending machine tender	00013 general manager - health, education, social and community services and membership organizations
62202 gem cutter	00012 general manager - real estate management company
62202 gem expert	14100 general office clerk
62202 gem setter	12010 general office clerks supervisor
62202 gemologist	14100 general office worker
41409 genealogist	31100 general pathologist
11100 general accountant	31110 general practice dentist
41210 general and vocational college (CEGEP) teacher	31102 general practice intern
94201 general assembler and light machine operator - electronic equipment manufacturing	31102 general practice physician
92020 general assembly supervisor - motor vehicle manufacturing	31102 general practice resident
72013 general carpenters foreman/woman	31102 general practitioner (GP)
72021 general construction foreman/woman	94200 general repairer and adjuster - motor vehicle manufacturing
75110 general construction labourer	00011 general secretary - government services
72021 general construction supervisor	41101 general solicitor
70010 general contractor	60020 general store manager
41101 general counsel	72013 general supervisor - building construction
22212 general draftsman	72013 general supervisor - residential construction
31301 general duty nurse - psychiatry	31101 general surgeon - Canadian Armed Forces
31301 general duty nurse	31101 general surgeon
41401 general economist	70020 general traffic manager - transportation
85101 general farm worker - harvesting	70020 general transportation manager
85100 general farm worker - livestock	72106 general welder
72013 general foreman/woman - building construction	40042 general
82020 general foreman/woman - mining	72105 generalist steel structure erector
72013 general foreman/woman - residential construction	92100 generating station main operator
95109 general helper - small electrical appliance assembly	92100 generating station operator - electrical power systems
63100 general insurance representative	92100 generating station operator
95109 general labourer - electrical equipment assembly	92100 generating station switchboard operator
95109 general labourer - light-fixture assembly	92100 generation substation operator - electrical power systems
95109 general labourer - manufacturing	72422 generator repairer
75212 general labourer - public works	72422 generator repairman/woman
94106 general machine tool set-up operator	94203 generator tester - industrial electrical equipment
72100 general machinist	31303 genetic counsellor
00012 general manager - financial, communications and other business services	31100 geneticist - medical specialist

21110 geneticist	22213 geomatics technician - land surveying
20011 geochemical manager	22214 geomatics technician - photogrammetry
22100 geochemical technician	22214 geomatics technician - remote sensing
22100 geochemical technologist	22214 geomatics technologist - aerial surveys
21102 geochemist	22214 geomatics technologist - cartography
21102 geodesist	22214 geomatics technologist - geographical information systems (GIS)
21300 geodetic engineer	22213 geomatics technologist - land surveying
22213 geodetic survey technician	22214 geomatics technologist - photogrammetry
22213 geodetic survey technologist	22214 geomatics technologist - remote sensing
41409 geographer	41220 geometry teacher - secondary school
22214 geographic information systems (GIS) technician	21102 geomorphologist
22214 geographic information systems (GIS) technologist	22101 geophysical data technician
41200 geography department chairman/woman - university	22212 geophysical draftsman
41200 geography department chairperson - university	21331 geophysical engineer
41200 geography department head - university	94201 geophysical instrument assembler - electronic equipment manufacturing
41200 geography professor - university	20011 geophysical manager
41220 geography teacher - secondary school	22101 geophysical observer
22212 geological draftsman	22101 geophysical prospecting technologist
21331 geological engineer	22101 geophysical survey technician
22101 geological engineering technician	22101 geophysical survey technologist
22101 geological engineering technologist	22101 geophysical technician
22214 geological information system technician	22101 geophysical technologist
22214 geological information system technologist	21102 geophysicist
20011 geological manager	41200 geophysics professor - university
22214 geological mapping technician	21331 geotechnical engineer
21102 geological oceanographer	20010 geotechnical engineering manager
22101 geological prospecting technologist	22101 geotechnician
22101 geological survey technician	90011 geothermal power plant operations manager
22101 geological technician	90011 geothermal production manager
22101 geological technologist	41406 geriatric activities coordinator
21102 geologist	33102 geriatric aide
41200 geology professor - university	31301 geriatric care nurse
22101 geology technical assistant	33102 geriatric health care attendant
21300 geomatics engineer	31100 geriatric medicine specialist
22214 geomatics technician - aerial surveys	31302 geriatric nurse practitioner
22214 geomatics technician - Canadian Armed Forces	31301 geriatric nurse
22214 geomatics technician - cartography	31300 geriatric nursing supervisor
22214 geomatics technician - geographical information systems (GIS)	41406 geriatric recreational and leisure activities consultant

41406 geriatric recreational and leisure activities coordinator	92010 glass cutting foreman/woman
41406 geriatric recreational and leisure activities counsellor	94102 glass drill operator
41300 geriatric social worker	94102 glass drill tender
31100 geriatrician	94102 glass edger operator
31100 geriatrist	94102 glass edger tender
94140 germ separator - food and beverage processing	94102 glass edger
94140 germ separator operator - food and beverage processing	53124 glass engraver
41220 German teacher - secondary school	92010 glass engraving foreman/woman
41409 gerontologist	94102 glass etcher
31301 gerontology nurse	94130 glass fibre dyer - textile manufacturing
51111 ghost writer	94102 glass finisher
64100 gift shop clerk	92010 glass forming foreman/woman
60020 gift shop manager	94102 glass forming operator
94130 gig machine operator - textile manufacturing	94102 glass forming specialist
83121 gill net fisherman/woman	92010 glass furnace foreman/woman
84121 gillnetter deckhand	94102 glass furnace operator
83121 gillnetter skipper	94102 glass furnace setter-operator
80020 ginseng grower	94102 glass furnace set-up operator
21102 glaciologist	94102 glass grinder
73111 glass and metal mechanic	94102 glass heater
94102 glass bender	94104 glass inspector
94102 glass beveller operator	72014 glass installation and repair contractor
94102 glass beveller tender	72014 glass installation foreman/woman
94102 glass beveller	73111 glass installer-glazier
53124 glass blower	72014 glass installers foreman/woman
94102 glass bonding machine operator	94102 glass laminator
94102 glass breaker	94102 glass lathe operator
94102 glass buffer	94102 glass Lehr attendant
72999 glass calibrator	94102 glass Lehr operator
21101 glass chemist	94102 glass Lehr tender
94102 glass chipper	94102 glass marker
65311 glass cleaner	94102 glass melter
94104 glass container tester	94102 glass mixer
94102 glass cut-off machine operator	94102 glass mould cleaner
75101 glass cut-off machine unloader	94102 glass mould polisher
94102 glass cutter operator	94102 glass moulder
94102 glass cutter	53124 glass novelty maker
94102 glass cutter-framer	95100 glass packer
92010 glass cutters supervisor	53124 glass painter
	94102 glass polisher tender
	94102 glass polisher

94102 glass presser	94102 glass-tempering furnace operator
92010 glass processing foreman/woman	94102 glass-tube-expander operator
92010 glass products manufacturing foreman/woman	94102 glassware grinder
94104 glass quality control inspector	94102 glassware-banding machine tender
73111 glass setter - construction	94102 glassware-decorating machine operator
75110 glass setter helper	94103 glaze maker - clay products
94102 glass spin mould machine set-up operator	94103 glazed products kilnman/woman - clay products
94102 glass tank furnace operator	73111 glazier and metal mechanic apprentice
95100 glass tapper - mineral products processing	73111 glazier and metal mechanic
94102 glass temperer	73111 glazier apprentice
94104 glass tester	75110 glazier helper
73111 glass wall installer	72014 glazier supervisor
73111 glass wallcovering installer	73111 glazier
94102 glass windshield autoclave operator	72014 glazier-contractor
73111 glass worker - construction	72014 glaziers foreman/woman
94102 glass worker - glass products manufacturing	72014 glazing contractor
73111 glass worker apprentice	72014 glazing supervisor
75110 glass worker helper - construction	41210 gliding instructor
94102 glass-annealing furnace tender	70020 global logistics manager
94102 glass-blowing lathe operator	94103 glost kiln operator - clay products
94102 glass-blowing machine operator	94133 glove and mitten examiner
94102 glass-blowing machine setter	95105 glove cutter
94102 glass-coating line operator	53123 glove designer
94102 glass-decorating machine operator	94131 glove knitter
94102 glass-drawing machine operator	95109 glove liner
94102 glass-edging machine feeder	92015 glove makers foreman/woman
95109 glassfiber mat roller-packer	92015 glove manufacturing foreman/woman
94131 glass-fibre-bonding machine tender	95109 glove pairer
94102 glass-finishing machine operator	94150 glove printer
95100 glass-forming machine operator helper	94132 glove stitcher
94102 glass-forming machine operator	95106 glucose transferrer - food and beverage processing
94102 glass-forming machine setter	94110 glue blender - chemical processing
94102 glass-forming machine set-up person	94110 glue blender
92010 glass-grinders and glass-polishers foreman/woman	94211 glue clamp operator - wood products manufacturing
94102 glass-grinding machine feeder	94124 glue jointer operator - woodworking
94102 glass-pressing and glass-blowing machine operator	94124 glue machine operator - woodworking
94102 glass-pressing machine operator	94124 glue machine tender - woodworking
94102 glass-silvering machine operator	94124 glue-bonding machine operator - woodworking
94102 glass-stopper grinder	94124 glue-bonding machine tender - woodworking

94210 gluer - furniture manufacturing	65211 golf range attendant
94219 gluer - other products manufacturing	95109 golf shoe spike installer
94112 gluer - rubber products manufacturing	53200 golfer
94152 gluing and folding machine operator - printing	65211 gondola operator
92022 gluing foreman/woman - furniture and fixtures manufacturing	12104 goods and services tax (GST) collection officer
94112 gluing machine operator - rubber products manufacturing	40011 goods and services tax (GST) manager
95106 gluten settler - food and beverage processing	51122 gospel singer
93101 glycerine refiner	42204 gospel worker
93101 glycerine refinery operator	43109 gourmet cooking instructor - non-vocational
53202 goal judge	44100 governess - child care
80020 goat breeder	40012 government administrator - education
94204 go-kart assembler	00011 government agency commissioner
72423 go-kart repairer	00011 government agency president
65211 go-kart ride attendant	00011 government agency senior administrator
65211 go-kart track attendant	21112 government agricultural service district representative
22101 gold assayer	21112 government agricultural service representative
94152 gold leaf stamper - printing	00010 government leader
94152 gold leaf stamper	41407 government official
22101 gold prospector	12102 government supply officer
94100 gold recoverer	00010 governor general
53124 goldsmith	73400 gradall operator
94112 golf ball assembler	41221 grade school teacher
95104 golf ball inspector - rubber products manufacturing	75110 grade tamper - construction
94112 golf ball maker	94143 grader - food and beverage processing
94112 golf ball vulcanizer	94121 grader - pulp and paper
94219 golf club adjuster	94133 grader - textiles
94219 golf club assembler	94123 grader - wood processing
73209 golf club head adjuster	72405 grader fitter
94219 golf club inspector	73400 grader operator
73209 golf club repairer	94123 grader tallyman/woman - wood processing
95109 golf club weigher	94121 graderman/woman - pulp and paper
65211 golf course attendant	72401 grading equipment mechanic
85121 golf course labourer	72021 grading equipment operators foreman/woman
65211 golf course ranger	41201 graduate assistant - university
65211 golf course starter	31301 graduate nurse - occupational health
22114 golf course superintendent	31301 graduate nurse - physician's office
85121 golf course worker	31301 graduate nurse
54100 golf instructor	32101 graduate nursing assistant
53200 golf player	31301 graduate private duty nurse
	40020 graduate studies dean

85101 grafter - orchard	62100 grain sales representative
80020 grain and oilseed farmer	94140 grain sample miller
80020 grain and oilseed grower	94143 grain sampler - food and beverage processing
80020 grain and oilseed producer	70012 grain terminal elevator manager
11103 grain broker - commodity trading	11103 grain trader
11103 grain broker	10020 grain trading manager
12102 grain buyer	75101 grain weigher
95106 grain cleaner helper	94140 grain-cleaning machine operator - food and beverage processing
94140 grain cleaner-dryer - food and beverage processing	94210 grainer - furniture finishing and refinishing
00011 grain commissioner	94130 graining machine operator - tannery
75101 grain conveyor operator	94110 graining press operator - chemical processing
94140 grain cooker - food and beverage processing	92012 grain-milling team supervisor
82030 grain crop foreman/woman	94140 grain-processing machine operator
84120 grain custom harvester	94103 granite carver
94140 grain dehydrator - food and beverage processing	94103 granite cutter
70012 grain elevator district manager	94103 granite machine polisher
72400 grain elevator maintenance mechanic	94103 granite products polisher
70012 grain elevator manager	73101 granite setter
75101 grain elevator operator	41302 granthi
85101 grain farm labourer	94101 granular aluminum caster - foundry
80020 grain farm manager	94140 granulating machine tender - tobacco processing
80020 grain farm operator	94140 granulator - tobacco processing
85101 grain farm worker	94110 granulator machine operator - chemical processing
80020 grain farmer	94100 granulator operator - phosphate
80020 grain grower	94140 granulator tender - food and beverage processing
75101 grain handler	80020 grape grower
22111 grain inspection supervisor	80020 grape producer
22111 grain inspector	52120 graphic artist
40011 grain market analysis chief	52111 graphic arts assembler
40011 grain market analysis manager - government services	94151 graphic arts camera operator
40011 grain market analysis manager	52111 graphic arts copy stylist
94140 grain meal processor - food and beverage processing	62100 graphic arts equipment sales representative
62100 grain merchandiser	52111 graphic arts renderer
94140 grain miller	52120 graphic arts room supervisor
94140 grain mixer - food and beverage processing	64101 graphic arts sales representative
80020 grain producer	41210 graphic arts teacher
14100 grain quotations board marker	52111 graphic arts technician
94140 grain roaster	52120 graphic design and illustration animator

10022 graphic design firm manager	74203 greaser
41210 graphic design instructor	41220 Greek teacher - secondary school
64101 graphic design sales representative	52121 green design consultant - interior design
52120 graphic designer - multimedia, interactive or new media	94123 green lumber grader
52120 graphic designer - multimedia	95103 green sorter - wood processing
52120 graphic designer and layout artist	94112 green tire inspector
52120 graphic designer	94112 green tire lubricator
21232 graphical user interface (GUI) designer	94112 green tire repairer
21232 graphical user interface (GUI) developer	95103 green wood chainman/woman - wood processing
21232 graphics programmer	82031 greenhouse foreman/woman
52111 graphics technician	72014 greenhouse installers foreman/woman
41409 graphoanalyst	85103 greenhouse labourer
41409 graphologist	80021 greenhouse manager
83110 grapple loader operator - logging	80021 greenhouse operator
83110 grapple operator - logging	82031 greenhouse supervisor
84110 grapple skidder operator	82031 greenhouse worker crew chief
82010 grapple yarder hook tender	22114 greens superintendent
83110 grapple yarder operator - logging	85121 greens worker
85121 grass cutter	95103 greensaw offbearer - wood processing
94140 grated cheese maker	85121 greenskeeper helper
85121 grave digger	22114 greenskeeper
94103 grave marker cutter - stone products	94103 greenware driller - clay products
94104 gravel grader - mineral products processing	94103 greenware finisher - clay products
73300 gravel hauler	94103 greenware turner operator - clay products
73110 gravel roofer	64100 greeting cards sales clerk
95100 gravel screener	94133 greige-cloth examiner
73300 gravel truck driver	94201 grid gauger - electronic equipment manufacturing
22101 gravity data technician	94202 grid inspector - electrical equipment manufacturing
85111 gravity prospecting observer helper	94201 grid inspector - electronic equipment manufacturing
73401 gravure press operator	94107 grid machine job setter
72022 gravure press operators foreman/woman	94201 grid operator - electronic equipment manufacturing
73401 gravure pressman/woman	94101 grid-caster operator - foundry
94151 gravure printer - prepress	41301 grief counsellor
73401 gravure printer - printing	63200 grill cook
72022 gravure printers foreman/woman	94103 grinder - concrete, clay and stone products
73401 gravure printing press operator	95101 grinder - metal products manufacturing
73401 gravure proof press operator - printing	94100 grinder and classifier tender
73401 gravure proof puller - printing	
73401 gravure proof wallpaper puller	
93101 grease maker	

95101 grinder and sharpener - metal products manufacturing	94124 groover operator - woodworking
95103 grinder feeder - pulp and paper	73400 grooving machine operator - heavy equipment
94121 grinder loader - pulp and paper	94124 grooving machine operator - woodworking
94111 grinder operator - plastic manufacturing	94106 grooving machine set-up operator - metal machining
94121 grinder operator - pulp and paper	72020 ground crew foreman/woman - aircraft maintenance
94112 grinder operator - rubber products manufacturing	75119 ground hand - telecommunications
94106 grinder set-up operator - metal machining	41210 ground school instructor
94110 grinder tender - chemical processing	72024 ground transit inspector - public transit
95101 grinder-chipper - metal products manufacturing	75119 ground worker - power lines
95101 grinder-deburrer - metal products manufacturing	75119 ground worker - telecommunications
95101 grinder-deburrer	85121 grounds maintainer
95101 grinder-dresser - metal products manufacturing	82031 grounds maintenance contractor
94121 grinderman/woman - pulp and paper	85121 grounds maintenance labourer
95101 grinder-trimmer - metal products manufacturing	82031 grounds maintenance park supervisor
94100 grinding and flotation tender	82031 grounds maintenance supervisor
92011 grinding and packing foreman/woman - chemical processing	85121 grounds maintenance worker
94103 grinding stone sharpener	82031 groundskeeper supervisor
94103 grinding wheel dresser	85121 groundskeeper
53111 grip	82031 groundskeeping foreman/woman
94140 grist mill operator - food and beverage processing	82031 groundskeeping supervisor - cemetery
85110 grizzly worker - underground mining	82031 groundskeeping supervisor
60020 grocer	82031 groundsman/woman supervisor
75201 groceries deliverer	85121 groundsman/woman
73300 groceries long haul driver	85121 groundsperson - campground
62010 grocery clerk supervisor	82031 groundsperson supervisor - campground
65102 grocery clerk	21102 groundwater geologist
65102 grocery packer	22101 groundwater technologist
63202 grocery store baker	10010 group accounting manager
63201 grocery store butcher	53120 group dance teacher
65100 grocery store cashier	53120 group dancer
65100 groceteria cashier	41301 group home counsellor
85100 groom - farm	40030 group home manager
65220 groom - horse race track	42201 group home operator
94102 groove grinder - glass	42201 group home worker
73400 groove-cutting machine operator	14201 group insurance clerk
94124 groover - woodworking	63100 group insurance representative
95109 groover and turner - shoe manufacturing	12201 group life claims examiner - insurance
	41300 group social worker
	64101 group travel sales representative

12202 group underwriter - insurance
12202 group underwriter
75110 grout machine operator
75110 grout pump operator
75110 grouter
85103 grower - cannabis
21112 growers' advisor
65310 guest home cleaner
64314 guest service agent
64321 guest service representative - casino
64314 guest service representative - hotel
14101 guest service representative - spa
62022 guest service supervisor - casino
64314 guest services agent - hotel
60031 guest services manager
41220 guest teacher - secondary school
60031 guest-house operator
41320 guidance counsellor - education
41321 guidance counsellor (except education)
40030 guidance director
41320 guidance service head
40030 guidance services director
94152 guillotine cutter - printing
94152 guillotine operator - printing
53124 guitar maker
51122 guitar player
73209 guitar repairer
94112 gum cutter - rubber footwear
94122 gumming machine tender - paper converting
94140 gum-sheeting and scoring machine operator - food and beverage processing
72400 gum-wrapping machine mechanic
94204 gun assembler
83101 gun perforator - oil field services
72999 gun repairer
94204 gun subassembler
75110 gunite mixer - construction
75110 guniter - construction
72999 gunsmith
94124 gunstock checkerer
94124 gunstock fitter - woodworking

94124 gunstock shaper - woodworking
53200 gymnast
53201 gymnastics coach
54100 gymnastics instructor
54100 gymnastics teacher
31101 gynecologist
73102 gyproc applicator
94100 gypsum calciner
73102 gypsum lather
73102 gypsum plasterboard applicator
94103 gypsum plasterboard maker
73209 gyroscope repairer
73209 gyroscope repairman/woman

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22110 habitat management technician
22110 hair and fibre forensic examiner
63210 hair colour technician
94202 hair dryer assembler
63210 hair dyer
63211 hair removal specialist
63211 hair replacement consultant
63211 hair replacement technician
63211 hair weaver
63210 hair-care specialist
63210 hairdresser apprentice
63210 hairdresser
41210 hairdressing instructor - vocational institute
60040 hairdressing salon manager
41210 hairdressing teacher - community college
94219 hair-rooting machine operator - toy manufacturing
94219 hairspring truer
60040 hairstyling salon manager
63210 hairstyling specialist
63210 hairstylist apprentice
63210 hairstylist
94151 halftone camera operator - printing
40030 halfway house manager
42201 halfway house supervisor

42201 halfway house worker	95106 hand chocolate packer
65310 hall cleaner	94140 hand cigar maker
45100 hall monitor	94140 hand cigar moulder
40021 hall principal - secondary school	94140 hand cigar roller
94140 ham curer	94103 hand clay products moulder
92012 ham curing foreman/woman	95105 hand cloth folder
94141 ham cutter	94203 hand coil taper - industrial electrical equipment
94143 ham grader	94219 hand colour-card maker
94141 ham sawyer - meat packing plant	72022 hand compositors supervisor
94105 hammer driver - forging	53124 hand crocheter
94103 hammer mill tender - concrete, clay and stone products	95105 hand cutter - clothing manufacturing
94140 hammer mill tender - food and beverage processing	95105 hand cutter - fabric, fur and leather products manufacturing
94105 hammer operator - metal forging	53124 hand dollmaker
53200 hammer thrower	95109 hand drapery pleater
72999 hammersmith	72106 hand electric arc welder
72106 hand arc welder	53124 hand embroiderer
53124 hand artificial flower maker	53124 hand enameller
64410 hand baggage inspector	53124 hand engraver
75101 hand bagger - material handling	94202 hand filament mounter
94219 hand bag-maker	95101 hand filer - metal products manufacturing
95109 hand barrel liner	65320 hand finisher - laundry and dry cleaning
53124 hand beadworker	94219 hand fish net maker
94212 hand belt laminator - plastic products manufacturing	94130 hand flesher - hide and pelt processing
94112 hand bonder - rubber footwear manufacturing	65320 hand fur cleaner
53124 hand bookbinder	94102 hand glass cutter
94103 hand brick moulder - clay products	94102 hand glass edge finisher
94219 hand broom maker	53124 hand glassworker
94219 hand brush maker	95109 hand glove turner
95101 hand buffer - metal products manufacturing	94103 hand granite polisher
95103 hand bundler - wood processing	94219 hand hat blocker
75101 hand bundler	94219 hand hat brim former
53124 hand candle maker	95104 hand hose cutter - rubber products manufacturing
95106 hand candy dipper - food and beverage processing	94112 hand hose maker - rubber products manufacturing
53124 hand case maker	63202 hand icer - bakery
95104 hand cementer - rubber and plastic products manufacturing	95109 hand inserter - printing
95109 hand cementer - shoe manufacturing	65320 hand ironer - laundry and dry cleaning
94219 hand chain maker - jewellery manufacturing	53124 hand jewellery artisan
	53124 hand knitter
	94219 hand lacer - sporting goods manufacturing

94210 hand laminator - furniture manufacturing	95105 hand skeiner - textile processing
94106 hand lapper - metal machining	94130 hand slubber
94101 hand lead caster - foundry	53124 hand spinner
95105 hand leather cutter - leather products manufacturing	85103 hand sprayer - greenhouse
53124 hand leather worker	94152 hand stitcher - binding
94219 hand lens beveller - non-prescription	53124 hand stone carver
94219 hand lens edger - non-prescription	94103 hand stone polisher
95103 hand log peeler	94103 hand stonecutter
64410 hand luggage inspector	94219 hand tennis net maker
94103 hand marble polisher	94112 hand tire trimmer
95101 hand metal filer	94106 hand tool filer - metal machining
53124 hand metalworker	73209 hand tool repairman/woman
94103 hand moulder - clay products	92024 hand tools manufacturing foreman/woman
94101 hand mouldmaker - foundry	94213 hand touch-up painter - production
94202 hand moulder, filaments	95109 hand trimmer - garment manufacturing
53124 hand needleworker	95109 hand trimmer - shoe manufacturing
94219 hand net-maker	75101 hand truck operator
75101 hand packager	65320 hand washer - laundry and dry cleaning
65102 hand packer - food store	53124 hand weaver
52111 hand painter - graphic arts	95109 hand wire bender
95109 hand paper pad gluer	53124 hand woodenware carver
53124 hand papermaker	53124 hand woodworker
75119 hand peat moss cutter	53123 handbag designer
94219 hand pleater - garment manufacturing	95109 handbag framer
94103 hand porcelain and earthenware presser - clay products	92015 handbag manufacturing foreman/woman
94103 hand presser - clay products	53200 handball player
65320 hand presser - laundry and dry cleaning	75201 handbill passer
53124 hand quilter	51112 handbook writer
72106 hand resistance welder	94219 handle and vent machine tender
94112 hand rubber footwear maker	95109 handle moulder
53124 hand rug maker	95103 handler - wood treatment
75101 hand sacker - material handling	83121 handliner fisherman/woman
94219 hand sample container maker	41409 handwriting analyst
94101 hand sand-core maker - foundry	41409 handwriting expert
95109 hand sander - furniture manufacturing	73201 handyman/woman
94130 hand screen printer - textile manufacturing	73201 handyperson
94142 hand shellfish processor - fish and seafood processing	83100 hang-up blaster - underground mining
94219 hand shoe stitcher	12110 Hansard reporter
53124 hand silk flower maker	70012 harbour master
	72602 harbour pilot
	40040 harbour police chief

42100 harbour police officer	53200 harness race driver
42100 harbour police sergeant	53200 harness racing driver
42100 harbour policeman/woman	53202 harness racing starter
94219 hard hat assembler	94131 harness tier - textiles
94129 hardboard press operator - wood processing	51122 harpist
94213 hardboard spray-coating machine tender	83121 harpoon fisherman/woman
94219 hardboard-coating line checker	53124 harpsichord builder
94129 hardboard-forming line operator	85101 harvest hand
94129 hardboard-grinding machine operator	85101 harvest worker
94129 hardboard-oiling machine tender	84120 harvester machine operator
95109 hardener - optical instruments manufacturing	85101 harvesting labourer
94100 hardener - primary metal processing	94219 hat and cap eyelet machine operator
72999 hard-hat diver	92015 hat and cap makers foreman/woman
94104 hardness tester - primary metal processing	95109 hat and cap parts bundler
83100 hardrock miner apprentice	95109 hat and cap perforator
83100 hardrock miner	94124 hat block maker - woodworking
94210 hardware assembler - furniture manufacturing	94219 hat brim cutter - fabric products manufacturing
94219 hardware assembler	95109 hat brusher
62101 hardware buyer	65329 hat check attendant
21311 hardware circuit board designer	65320 hat cleaner
21311 hardware design engineer	94219 hat cone former - hat manufacturing
21311 hardware development engineer	94219 hat cone shrinker
21311 hardware engineer	94219 hat crown and brim former - hat manufacturing
22221 hardware installation technician	94219 hat decoration maker
94210 hardware installer - furniture manufacturing	94219 hat decorator - fabric products manufacturing
94210 hardware mounter - furniture manufacturing	53123 hat designer
10012 hardware purchasing director	92015 hat dyer supervisor
10012 hardware purchasing manager	94219 hat finisher
64100 hardware salesperson - retail	94219 hat foundation maker - fabric products manufacturing
64100 hardware store clerk	94133 hat fur sorter
60020 hardware store manager	94133 hat inspector
21311 hardware technical architect	95109 hat liner
22221 hardware technical support analyst	94219 hat ornament maker
94219 hardware, tool and knife inspector	95109 hat sizer
84110 hardwood faller and buckler	95109 hat sorter
73113 hardwood floor covering installer	95109 hat sweatband flanger
73113 hardwood floor layer	95109 hat treater
94201 harness and cable fabricator - electronic equipment manufacturing	92015 hat trimming department foreman/woman
95105 harness cleaner - textile processing	94219 hat-brim-flexing machine tender - hat manufacturing
94131 harness preparer - textiles	

82030 hatchery foreman/woman	62024 head custodian - cleaning services
85100 hatchery helper - poultry	62024 head custodian
85102 hatchery helper	12013 head dispatcher
80020 hatchery manager	72205 head end technician - cable television
80020 hatchery operator	52119 head grip
85102 hatchery worker - aquaculture	80021 head grower - cannabis
85100 hatchery worker - poultry	62024 head janitor
94219 hat-greasing machine tender - hat manufacturing	50010 head librarian
94219 hatmaking machine operator	43201 head matron - correctional service
94219 hat-pouncing machine tender - hat manufacturing	92012 head miller - feed-and-flour mill
84100 haulage truck driver - underground mining	92012 head mixer - bakery
84100 haulageman/woman - underground mining	31300 head nurse
84120 hay baler operator - agriculture	50010 head of cataloguing
92012 hazard analysis critical control point (HACCP) coordinator - food processing	52119 head of wardrobe
92012 hazard analysis critical control point (HACCP) coordinator	12202 head office underwriter - insurance
21120 hazardous waste inspector	53100 head preparator - museums and art galleries
42204 hazzan	92011 head refrigerating engineer
72601 head air traffic controller	62200 head rotisseur
50010 head archivist	94120 head sawyer - sawmill
62022 head baggage porter	94120 head sawyer
63202 head baker - retail	12013 head shipper
63202 head baker	64400 head teller - financial services
64301 head barmaid	72604 head train dispatcher
64301 head barman/barwoman	94152 headband and liner gluer - printing
64301 head bartender	94107 header machine operator - metal
94141 head boner - meat packing plant	12101 head-hunter
73311 head brakeman/woman	94219 heading machine tender
63201 head butcher - retail or wholesale	94200 headlight adjuster - motor vehicle manufacturing
63201 head butcher - retail	51113 headline writer
63201 head butcher - wholesale	84100 headman/woman - underground mining
62024 head caretaker	72011 head-office repair supervisor
62010 head cashier	40040 headquarters chief inspector - police
93100 head charger	42100 headquarters duty officer - police
62200 head chef	40040 headquarters police inspector
62024 head cleaner	94120 headrig operator - sawmill
62024 head cleaning man/woman	94120 head-saw operator - sawmill
53201 head coach	65200 headwaiter/headwaitress - food and beverage services
43201 head correctional officer	33109 health aide
	12201 health and dental claims examiner - insurance

22232 health and safety inspector	51100 health librarian
41210 health and safety instructor	22232 health officers supervisor
22232 health and safety officer	21100 health physicist
22232 health and safety technician	41404 health policy development officer
22232 health and safety technologist	41404 health policy research analyst
41404 health and social services institution accreditation officer	41404 health program information analyst
41404 health and social services liaison officer	40010 health program operations manager - government services
40010 health and welfare manager - government services	40010 health programs assistant director - government services
41407 health authority board member	40010 health promotion chief - government services
33102 health care aide	41404 health promotion program officer
33102 health care assistant	10019 health records administrator
00013 health care association president	12111 health records classifier
41404 health care association program officer	14100 health records clerk
41404 health care consultant	12111 health records management coder
31120 health care institution pharmacist	12111 health records management supervisor
40010 health care insurance plan director - government services	12111 health records technician
40010 health care insurance refund claims director - government services	41404 health research officer
41404 health care planner	41404 health services consultant
41404 health care planning consultant	40010 health services director - government services
41404 health care planning officer	00013 health services institution executive director
41404 health care program administration officer	41404 health services program consultant
41404 health care researcher	41404 health services research officer
50012 health club manager	41404 health services researcher
00011 health commissioner	21120 health standards inspector
41401 health economist	40010 health strategies manager - government services
40010 health education director - government services	50012 health studio manager
41220 health education teacher - secondary school	41210 health technology teacher
41404 health educator	32109 hearing aid assistant
40010 health information and promotion chief - government services	32109 hearing aid consultant
40010 health information and promotion director - government services	32109 hearing aid dealer
14100 health information clerk	94201 hearing aid inspector - electronic equipment manufacturing
12111 health information management coder	32109 hearing aid practitioner
11201 health information management consultant	22311 hearing aid repairer
12111 health information management practitioner	64100 hearing aid sales consultant - retail
12111 health information management professional	64100 hearing aid salesperson - retail
12111 health information management supervisor	32109 hearing aid specialist
12111 health information management technician	32109 hearing aid technician
	32109 hearing assessment technician

32109 hearing disorder technician	72020 heating systems mechanics foreman/woman
32109 hearing instrument dispenser	72420 heating systems servicer
32109 hearing instrument practitioner assistant	72420 heating systems technician
32109 hearing instrument practitioner	72420 heating technician
32109 hearing instrument specialist	72020 heating, ventilating and air conditioning (HVAC) mechanics foreman/woman
75200 hearse driver	22301 heating, ventilating and air conditioning systems technician
31100 heart specialist	22301 heating, ventilating and air conditioning technician
72321 heat and frost insulator	21301 heating, ventilation and air conditioning (HVAC) engineer
94130 heat curer - textile manufacturing	72402 heating, ventilation and air conditioning (HVAC) mechanic
94205 heat seal equipment operator - electrical equipment manufacturing	22301 heating, ventilation and air conditioning (HVAC) systems specialist
94219 heat sensor assembler	22301 heating, ventilation and air conditioning (HVAC) systems technologist
22101 heat treat technician	22301 heating, ventilation and air conditioning (HVAC) technologist
95101 heat treater helper	95109 heat-seal press pad assembler - furniture assembly
94104 heat treating inspector - metal processing	94111 heat-sealing machine tender - plastic manufacturing
93100 heater - primary metal processing	94100 heat-treat furnace operator - primary metal processing
95100 heater helper - primary metal processing	72020 heavy agricultural machinery assembly foreman/woman
94105 heater operator - metal forging	94106 heavy chucking lathe operator - metal machining
73400 heater-planer operator	72021 heavy construction crew foreman/woman
72020 heating and air conditioning contractor	72020 heavy construction equipment assembly foreman/woman
75119 heating and air conditioning mechanic helper	72021 heavy construction labourers foreman/woman
72402 heating and air conditioning mechanic	73400 heavy construction-equipment operator
72020 heating and air conditioning systems contractor	94202 heavy current switch assembler
75119 heating and cooling mechanic helper	72401 heavy diesel engine mechanic
72402 heating and cooling mechanic	72020 heavy equipment assembly foreman/woman
92100 heating and ventilation equipment tender	72401 heavy equipment combination mechanic
22212 heating and ventilation systems draftsman	72401 heavy equipment field mechanic
22301 heating designer	72405 heavy equipment fitter
94205 heating element coil former - electrical equipment manufacturing	74203 heavy equipment greaser
94205 heating element coil-former operator	72401 heavy equipment inspector-repairer
72420 heating mechanic	72401 heavy equipment mechanic - diesel engine
92011 heating plant foreman/forewoman	72020 heavy equipment mechanic foreman/woman
72420 heating service mechanic	
21301 heating specialist engineer	
92100 heating stationary engineer	
72020 heating system installation and repair contractor	
72420 heating system mechanic	
72020 heating systems contractor	
22212 heating systems draftsman	
72420 heating systems installer	

75119 heavy equipment mechanic helper	73400 heavy-duty equipment operator
72401 heavy equipment mechanic	72021 heavy-duty equipment operators foreman/woman
72020 heavy equipment mechanics supervisor	72401 heavy-duty equipment technician apprentice
73400 heavy equipment operating engineer	72401 heavy-duty equipment technician
73400 heavy equipment operator apprentice	94105 heavy-duty press set-up operator - metal fabrication
73400 heavy equipment operator	94202 heavy-duty resistor assembler
41210 heavy equipment operators instructor - community college	94203 heavy-duty transformer assembler
72021 heavy equipment operators supervisor	94203 heavy-duty transformer coil winder
62100 heavy equipment sales representative	95109 heddle examiner
62100 heavy equipment salesperson	94219 heel attacher
74203 heavy equipment service truck driver	95109 heel compressor tender - shoe manufacturing
74203 heavy equipment servicer (except mechanic)	94112 heel cutter - rubber footwear
72020 heavy farm equipment assembly foreman/woman	94112 heel maker - rubber footwear
94105 heavy forger	94219 heel maker
72020 heavy machinery assembly foreman/woman	95109 heel reducer - shoe manufacturing
72405 heavy machinery fitter	95109 heel scorer - shoe manufacturing
75101 heavy materials handler	94219 heel seat fitter
94100 heavy media separation tender - mineral and metal processing	95109 heel shaper - shoe manufacturing
72401 heavy mobile equipment repairer	94219 heel-trimming machine operator - footwear manufacturing
72401 heavy mobile equipment repairman/woman	72106 heliarc welder
72401 heavy mobile logging equipment mechanic	92023 helicopter assembly foreman/woman
72401 heavy mobile mining equipment mechanic	92023 helicopter assembly supervisor
73300 heavy truck driver	72600 helicopter chief pilot
74203 heavy truck greaser	72600 helicopter flight instructor
74203 heavy truck oiler	72020 helicopter maintenance foreman/woman - mechanical systems
62100 heavy truck sales representative	72404 helicopter mechanic
62100 heavy truck salesperson	72404 helicopter mechanical systems inspector
93101 heavy water chemical process operator	72600 helicopter pilot
22312 heavy water plant control technician	21110 helminthologist
72400 heavy water plant mechanical maintainer	53200 helmsman - sports
92100 heavy water steam plant operator	74201 helmsman/woman - water transport
94202 heavy-duty capacitor assembler	42201 help centre supervisor - social services
65312 heavy-duty cleaner	22221 help desk analyst - systems
94203 heavy-duty coil former - industrial electrical equipment	20012 help desk manager - information technology (IT)
94205 heavy-duty electrical battery charger tester	22221 help desk specialist
72401 heavy-duty equipment mechanic apprentice	22221 help desk technical agent
72401 heavy-duty equipment mechanic	22221 help desk technician
73400 heavy-duty equipment operator apprentice	

51112 help file developer	94130 hide and skin preparer
95102 helper - chemical processing	92012 hide curing foreman/woman - food and beverage processing
75212 helper - garbage collection	94130 hide fluffer - hide and pelt processing
95100 helper - primary metal and mineral products processing	94133 hide grader
95109 helper - printing	94133 hide inspector
95105 helper - textiles	94130 hide parer - hide and pelt processing
31100 hematological-pathologist	94130 hide processing worker
31100 hematologist	94133 hide sorter
32120 hematology technologist - medical laboratory	94130 hide stretcher
31100 hematopathologist	92015 hide tanning supervisor
31100 hematopathology specialist	92015 hide-house foreman/woman - hide and pelt processing
94132 hemmer machine operator - sewing	00011 high commissioner
31301 hemodialysis nurse	72102 high rise sheet metal installer
32129 hemodialysis technician	52100 high school librarian
32129 hemodialysis technologist	40021 high school principal
63211 henna tattoo artist	41220 high school teacher - outdoor activities
53123 heraldist	41220 high school teacher
33109 herbal medicine assistant	94150 high speed printer operator
32209 herbal practitioner	72203 high voltage lineman/linewoman
32209 herbal specialist	72203 high voltage lineman/woman - electric power systems
32209 herbalist	94203 high voltage transformer bushing assembler
51101 herbarium curator	83100 high-raise blaster
32209 herbologist	94140 high-speed machine operator - tobacco products
32209 herbology practitioner	94130 high-speed machine warper - textile manufacturing
32209 herborist	94140 high-speed packer operator - tobacco products
84120 herd attendant	94120 high-speed stud operator - sawmill
85100 herd hand	21100 high-temperature physicist
84120 herd superintendent	72203 high-voltage maintenance lineman/woman
84120 herder - stockyards	72203 high-voltage power line patroller - electric power systems
84120 herdsman/woman	72422 high-voltage power transformer repairer
84120 herdsperson	72203 high-voltage tower lineman/woman
53100 heritage interpreter	72021 highway and bridge maintenance road boss
41405 heritage languages education consultant	73100 highway and street cement mason
40012 heritage languages program director	00011 highway commissioner
21202 heritage planner - land use	75110 highway concrete mixer operator helper
21202 heritage work planner	72021 highway construction boss
21110 herpetologist	72021 highway construction foreman/woman
94133 hide and pelt processing inspector	
95109 hide and pelt processing labourer	
94130 hide and pelt processing worker	

00015 highway construction general manager	53100 historical village technician
22233 highway construction inspector foreman/woman	41200 history assistant professor - university
22233 highway construction inspector	53100 history museum interpreter
70010 highway construction manager	41200 history professor - university
22300 highway construction materials testing technician	41210 history teacher - general and vocational college (CEGEP)
21300 highway engineer	41220 history teacher - secondary school
75212 highway line painter	32120 histotechnologist - medical laboratory
72021 highway maintenance foreman/woman	64100 hobby shop salesperson
75110 highway maintenance worker	00013 hockey association general manager
42100 highway patrol officer	53201 hockey coach
42100 highway patrolman/woman	53200 hockey player
14404 highway radio-telephone operator	53201 hockey scout
43202 highway scale operator	94211 hockey stick assembler
75110 highway sign erector	94211 hockey stick inspector-grader
74205 highway snow removal equipment operator	53201 hockey team coach
74205 highway snowplow operator	80020 hog breeder
22300 highway technician	62101 hog buyer
22300 highway traffic technician	82030 hog farm foreman/woman
53121 high-wire walker	82030 hog farm supervisor
64322 hiking guide	85100 hog farm worker
21110 histologist	80020 hog farmer
33101 histology technician	94141 hog killer
32120 histology technologist - medical laboratory	95103 hog machine tender - wood processing
32120 histology technologist	82030 hog operation supervisor
31100 histopathologist - medical specialist	80020 hog producer
21110 histopathologist	94211 hogshead assembler - wood products manufacturing
32120 histopathology technologist	95106 hogshead filler - tobacco products
41409 historian	94143 hogshead inspector - tobacco processing
53100 historic site interpreter	72500 hoist operator - foundry
50010 historic sites administrator	83100 hoist operator - underground mining
51102 historical archivist	72500 hoist operator (except underground mining)
51101 historical artifact conservator	92023 hoisting-and-lifting equipment assembly foreman/woman
41409 historical geographer	83100 hoistman/woman underground mining
53100 historical interpreter	94124 hole saw tender - woodworking
50010 historical park assistant director	60040 holidays service manager
50010 historical park assistant superintendent	32209 holistic nutritionist
50010 historical park director	32209 holistic practitioner
50010 historical park superintendent	94219 hollowware moulder
53100 historical site technician	94219 hollowware-buffing machine tender
53100 historical village supervisor	

94152 hologram-imprinting machine tender	72602 home trade first mate
22310 holographics technician	72602 home trade master
22310 holographics technologist	72602 home trade mate
32123 Holter monitor technologist	72602 home trade second mate
32123 Holter scanning technologist	41404 home-care programs consultant
22301 home automation technician	44101 home-care worker
70011 home builder	65310 homemaker helper - rest home
70011 home building contractor	40010 homemaker services director - government services
31301 home care neuroscience nurse	40030 homemaker services director - social services
31301 home care nurse	44101 homemaker
31203 home care occupational therapist	32209 homeopath
60040 home care service manager	32209 homeopathic practitioner
40010 home care services director - government services	43100 homework assistant
30010 home care services director - medical services	94140 homogenizer operator - food and beverage processing
44100 home child care provider	85100 honey farm worker
65310 home cleaner	94143 honey grader and blender
22233 home construction inspector	94140 honey-processing equipment operator
52121 home decorating consultant	94106 honing machine operator - metal machining
52121 home decorator	94106 honing machine set-up operator - metal machining
65109 home demonstrator - retail	94200 hood fitter - motor vehicle manufacturing
41403 home economics consultant	95106 hoof remover - food and beverage processing
41221 home economics teacher - elementary school	82010 hook and rig supervisor - logging
41220 home economics teacher - secondary school	72400 hook repairer - textile manufacturing
22100 home economics technologist	82010 hook tender - logging
41403 home economist - consumer association	94112 hooker-laster - rubber products manufacturing
41403 home economist	94105 hoop bender
44101 home health care worker	83121 hoop net fisherman/woman
44101 home helper	94124 hoop-driver operator - woodworking
22233 home inspector	94124 hoop-driving machine operator - woodworking
22310 home lighting technician	94105 hoop-maker machine operator - metal fabrication
42204 home mission worker - religion	94107 hoop-making machine operator
12202 home office underwriter - insurance	94107 hoop-punching and hoop-coiling machine operator - metal products manufacturing
52121 home organizer	94107 hoop-riveting machine operator
70011 home renovation contractor	82030 hop farm foreman/woman
70011 home renovator	80020 hop grower
65109 home salesperson	80020 hop producer
52121 home stager	84120 hop-picking machine operator
52121 home staging consultant	
44101 home support attendant	
44101 home support worker	

73400 ho-ram operator	92013 hose building supervisor - rubber products manufacturing
94106 horizontal boring and milling machine set-up operator	95104 hose checker - rubber products manufacturing
94124 horizontal boring machine operator - woodworking	94112 hose curer - rubber products manufacturing
75110 horizontal earth-boring machine helper	94112 hose cutter and brander operator - rubber products manufacturing
73400 horizontal earth-boring machine operator	94112 hose maker machine operator - rubber products manufacturing
94124 horizontal resaw operator - woodworking	75110 hoseman/woman insulation helper
51122 horn player	94130 hosiery boarder
51122 horn teacher - private, conservatory or studio lessons	95105 hosiery folder
84120 horse breaker	92015 hosiery foreman/woman
80020 horse breeder	94133 hosiery grader
65220 horse hot-walker	94133 hosiery inspector
53202 horse identifier	94131 hosiery knitter
84110 horse logger	94131 hosiery looper - textiles
53202 horse plating inspector - racetrack	94133 hosiery pairer
53202 horse race timer	94131 hosiery seamer - textiles
50012 horse racing director	94133 hosiery sizer
53202 horse racing starter	95105 hosiery tray dryer
82030 horse stable foreman/woman	94131 hosiery-knitting machine tender
84120 horse trainer	33102 hospice worker
64322 horseback riding guide	00013 hospital administrator
54100 horseback riding instructor	14101 hospital admissions clerk
64320 horse-drawn vehicle sightseeing tour guide	10019 hospital admissions director
53202 horseshoe inspector	14101 hospital admitting clerk
72999 horseshoer	12010 hospital admitting clerks supervisor
82031 horticultural contractor	33102 hospital aide
80021 horticultural greenhouse operator	33102 hospital attendant
22114 horticultural technician	63202 hospital baker
22114 horticultural technologist	65310 hospital cleaner
41210 horticulture and landscaping instructor - school of horticulture	63200 hospital cook
85103 horticulture labourer	31120 hospital druggist
22114 horticulture specialist	22310 hospital electronic equipment repairer
22114 horticulture technician	62100 hospital equipment sales representative
22114 horticulture technologist	62100 hospital equipment salesperson
82031 horticulture workers supervisor	00013 hospital executive director
85103 horticulturist helper	62021 hospital executive housekeeper
22114 horticulturist	62020 hospital food service supervisor
92013 hose building foreman/woman - rubber manufacturing	31301 hospital hygiene nurse
	31301 hospital hygienist - nursing
	64409 hospital information clerk

14201 hospital insurance clerk	94101 hot-box moulder - foundry
65201 hospital meal attendant	94213 hot-dip coater - metal plating
31301 hospital nurse	94213 hot-dip galvanizer - metal plating
33102 hospital orderly	64101 hotel accommodations sales executive
31120 hospital pharmacist	21120 hotel and restaurant inspector - public health
33102 hospital porter	60031 hotel assistant manager
14101 hospital receptionist	63202 hotel baker
14100 hospital records clerk	65100 hotel cashier
33102 hospital service aide - medical	00014 hotel chain regional vice-president
92100 hospital stationary engineer	65310 hotel cleaner
64100 hospital television rental attendant	62022 hotel clerk head
65201 hospital tray carrier	62022 hotel clerk supervisor
33102 hospital ward aide	64314 hotel clerk
31100 hospitalist	64314 hotel concierge
64300 host/hostess - food service	60031 hotel director
64300 host/hostess - restaurant or cocktail lounge	65210 hotel doorkeeper
52114 host/hostess - television or radio	62021 hotel executive housekeeper
42201 hostel coordinator	60030 hotel food and beverage service manager
60031 hostel manager	64314 hotel front desk clerk
42201 hostel outreach worker	60031 hotel front desk manager
74203 hostler - transit system	64314 hotel front office clerk
64322 hot air balloonist	60031 hotel front office manager
95100 hot bed leverman/woman - primary metal processing	00014 hotel general manager
72022 hot composition foreman/woman - printing	65210 hotel guest services attendant
65201 hot dog vendor	65310 hotel housekeeper
72106 hot gas welder	64409 hotel information clerk - contact centre
72500 hot metal crane operator	41210 hotel management teacher - college
93100 hot mill roller - primary metal processing	60031 hotel manager
95103 hot plate press tender helper	62022 hotel managing supervisor
94103 hot press operator - clay products	64314 hotel night auditor
94105 hot press operator - metal forging	60031 hotel operator
94129 hot press operator - wood processing	12102 hotel purchasing agent
94124 hot press tender - woodworking	12102 hotel purchasing officer
94100 hot strip finishing mill tender - primary metal processing	64314 hotel receptionist
94100 hot strip roughing mill tender - primary metal processing	64101 hotel services sales representative
73200 hot tub installer	64101 hotel supply sales representative
73200 hot tub servicer	65329 hotel valet
72014 hot water heater installation contractor	65200 hotel waiter/waitress - formal service
73200 hot water heater installer	80021 hothouse flower grower
	72014 hothouse installers foreman/woman
	85103 hothouse labourer

94107 hot-wound spring coiler	13101 housing development officer
22301 house automation technician	41403 housing policy analyst
72310 house carpenter	40010 housing policy and development director - government services
65310 house cleaner	13101 housing project manager
64410 house detective	22233 housing rehabilitation inspector
65329 house manager	70011 housing rehabilitation specialist - builder
72021 house mover contractor	70011 housing renovator
72021 house moving foreman/woman	72602 hovercraft master
40019 House of Commons administrator	22212 hull draftsperson - shipbuilding and repair
40030 House of Commons chief clerk	94219 hull inspector
41407 House of Commons committee officer	94219 hull surveyor
41407 House of Commons officer	94219 hull technician
73112 house painter	31112 human communication disorders specialist
92023 house trailer assembly foreman/woman	41400 human factors engineer
64100 house trailer salesperson - retail	41400 human factors specialist (except engineer)
22311 household and business equipment technician	31204 human kineticist
73200 household appliance installer	21110 human physiologist
72020 household appliance repair shop foreman/woman	41301 human relations officer - family and children's services
64100 household appliance salesperson - retail	41301 human relations officer - family therapy
72421 household electrical appliance repairman/woman	41300 human relations officer - social work
72421 household electrical appliance service technician	21221 human resource information system analyst
75101 household goods mover	13110 human resources administrator - Canadian Armed Forces
65329 household manager	13110 human resources administrator
65310 housekeeper	11200 human resources adviser
65310 housekeeping aide	00012 human resources and organizational development vice-president - financial, communications and other business services
65310 housekeeping attendant	00015 human resources and organizational development vice-president - goods production, utilities, transportation and construction
62021 housekeeping director	00013 human resources and organizational development vice-president - health, education, social and community services and membership organizations
62021 housekeeping manager	00014 human resources and organizational development vice-president - trade, broadcasting and other services
62024 housekeeping room attendant supervisor	11200 human resources arbitrator
65310 housekeeping room attendant	14102 human resources assistant
40010 housekeeping services director - government services	11200 human resources classification officer
62024 housekeeping supervisor	14102 human resources clerk - Canadian Armed Forces
65310 housemaid - cleaning services	
65310 houseman/woman	
65329 housesitter	
64100 housewares salesperson - retail	
22233 housing construction inspector	
70010 housing construction manager	

14102 human resources clerk	43202 Humane Society officer
11200 human resources consultant	41200 humanities professor - university
11200 human resources coordinator - Canadian Armed Forces	41220 humanities teacher - high school
11200 human resources coordinator	94129 humidifier tender - wood processing
10011 human resources development and planning director	92100 humidifying systems operator
10011 human resources development director	53121 humorist - performing arts
10011 human resources director	51111 humorist-author
41401 human resources economist	94101 hunter machine operator - foundry
11200 human resources generalist	85104 hunter
11200 human resources management consultant	64322 hunting and fishing guide
10011 human resources management director	60031 hunting and fishing lodge manager
10011 human resources manager	64322 hunting and fishing outfitter
12101 human resources officer	60031 hunting camp operator
11200 human resources planning consultant	64322 hunting guide
10011 human resources planning manager	64100 hunting guns salesperson - retail
11200 human resources policy analyst	94201 hybrid circuit assembler - electronic equipment manufacturing
11200 human resources policy officer	94201 hybrid inspector - electronic equipment manufacturing
11200 human resources program supervisor	74204 hydrant and valve maintenance worker
11200 human resources research officer	95100 hydrate scale reclaimer - primary metal processing
13110 human resources secretary	94100 hydrate thickener operator
11200 human resources specialist	94110 hydrator operator
11200 human resources supervisor	94129 hydraulic barker operator - wood processing
12101 human resources technician	94210 hydraulic chair assembler
00012 human resources vice-president - bank	83100 hydraulic coal monitor operator
00012 human resources vice-president - financial, communications and other business services	73400 hydraulic excavator operator
00015 human resources vice-president - goods production, utilities, transportation and construction	94204 hydraulic hoist assembler
00013 human resources vice-president - health, education, social and community services and membership organizations	93200 hydraulic installation - aircraft assembly
00014 human resources vice-president - trade, broadcasting and other services	22212 hydraulic machinery draftsman
00011 Human Rights Commission chairperson	94105 hydraulic press operator - metal fabrication
41403 Human Rights Commission officer	94124 hydraulic press tender - woodworking
41403 Human Rights Commission officers supervisor	94204 hydraulic pump assembler
41403 human rights officer - government services	93200 hydraulic system installer - aircraft assembly
41403 human rights officer	72020 hydraulic unit repair shop foreman/woman
41403 human rights specialist	73209 hydraulic unit repairer
43202 Humane Society inspector	21300 hydraulics engineer
	21110 hydrobiologist
	83101 hydrocarbon mud logger - oil field services
	21101 hydrochemist
	92100 hydro-electric generating station operator

92100 hydro-electric power plant operator	
90011 hydro-electric power production plant director	
90011 hydro-electric power station director	
00015 hydro-electric power station president	
90011 hydroelectric power station project manager	
92011 hydroelectric power station supervisor	
92011 hydro-electric station chief operator	
62100 hydro-electricity sales representative	
72106 hydrogen braze furnace man/woman	
72106 hydrogen braze furnace operator	
94103 hydrogen furnace tender - clay products	
93101 hydrogen process plant operator	
94140 hydrogenation operator - food and beverage processing	
21331 hydrogeological engineer - engineering	
21102 hydrogeologist	
21331 hydrogeology engineer	
21300 hydrographic engineer	
22101 hydrographic survey technician	
22101 hydrographic survey technologist	
21102 hydrographic surveyor - geology	
21300 hydrological engineer	
22101 hydrological technician	
21102 hydrologist	
22101 hydrology technician	
21322 hydrometallurgical engineer	
21109 hydrometallurgist	
21103 hydrometeorologist	
94219 hydrometer assembler	
72402 hydronics technician	
80021 hydroponic greenhouse operator	
85103 hydroponics labourer	
80021 hydroponics operator	
22114 hydroponics technician	
85103 hydroponics worker	
22230 hydrostatic tester	
73300 hydrovac truck operator	
41200 hygiene professor - university	
31100 hyperbaric physician	
32209 hypnotherapist	
53121 hypnotist	
	94219 ice chip maker tender
	22214 ice conditions service specialist - meteorology
	65201 ice cream counter attendant
	94140 ice cream decorator - food and beverage processing
	94140 ice cream maker
	92012 ice cream making foreman/woman
	94140 ice cream novelty maker
	92012 ice cream processing assistant supervisor
	65201 ice cream vendor
	95106 ice cream worker - food and beverage processing
	94219 ice machine tender
	94219 ice maker
	22214 ice observer
	65211 ice rink attendant
	62029 ice rink attendants supervisor
	53122 ice sculptor
	21102 ice specialist - oceanography
	94219 ice-cutting machine tender
	54100 ice-skating instructor
	22110 ichthyological technician
	22110 ichthyological technologist
	21110 ichthyologist
	95106 icing dipper - food and beverage processing
	94140 icing machine operator - food and beverage processing
	94140 icing maker - food and beverage processing
	94140 icing mixer - food and beverage processing
	94140 icing sugar mill tender
	51100 iconographer
	14102 identification clerk
	42100 identification officer - police
	94219 igniter assembler
	53121 illusionist
	52120 illustrator and graphic designer
	52120 illustrator
	64201 image consultant
	94151 image processing operator
	94151 image reproduction machine operator

94151 image setter operator	14301 import documentation clerk
94151 image-processing system operator	14400 import freight clerk
52113 imagery technician - Canadian Armed Forces	64101 import sales representative
41302 imam	14400 import traffic clerk
95101 immersion metal cleaner - metal products manufacturing	70020 import traffic manager
13100 immigrant investors program coordinator	12013 import traffic supervisor
41403 immigrant settlement liaison officer	64101 importer
43203 Immigration Act enforcement officer	64101 import-export tradesperson - wholesale
43203 immigration agent - government services	14112 imposition planner
41403 immigration and citizenship consultant	14112 impositor
41403 immigration and demographic analysis officer	94201 impregnator and dryer - electronic equipment manufacturing
40010 immigration and settlement director - government services	94106 impressing machine tender - metal machining
40010 Immigration Appeal Division director - government services	94105 impression die press operator - metal fabrication
43203 immigration appeal officer	53121 improviser
40010 immigration appeals and litigation chief - government services	72423 inboard-outboard mechanic
40010 immigration appeals manager - government services	72423 inboard-outboard motor mechanic
41403 immigration consultant	64409 inbound customer service representative - contact centre
43203 immigration examiner	94205 incandescent lamp making inspector
43203 immigration examining officer	64311 in-charge flight attendant
43203 immigration inspector	92011 incinerator foreman/woman
41101 immigration lawyer	95109 incinerator plant tender
43203 immigration officer - government services	94201 in-circuit test operator
43203 immigration officers supervisor	94129 incising machine tender - wood processing
41403 immigration policy advisor	40030 income maintenance director
41403 immigration policy analyst	42201 income maintenance officer - social services
41403 immigration policy consultant - non-government	41403 income maintenance program officer
41403 immigration settlement practitioner	40010 income security district administrator - government services
31100 immunologist and allergologist	40010 income security regional manager - government services
21110 immunologist	11100 income tax adjuster
32120 immunology technologist - medical laboratory	11100 income tax adviser
94105 impact hammer operator - metal forging	11100 income tax consultant
53121 impersonator	11100 income tax expert
31110 implantologist - dentistry	11100 income tax investigator
13100 implementation officer	14200 income tax return preparer
14301 import clerk	11100 income tax specialist
64101 import company sales representative	85100 incubator tender - livestock
62100 import company technical sales specialist	11103 independent floor trader

42201 independent living instructor	94141 industrial butcher
41320 independent or applied studies officer	21101 industrial chemist
42200 independent paralegal	75110 industrial chimney repairer-mason helper
10010 independent public accountants chief	65312 industrial cleaner
41320 Indigenous advisor - college	94213 industrial coater
41403 Indigenous affairs officer	72422 industrial coil winder-repairer
41405 Indigenous curriculum and education specialist	41402 industrial commissioner
41210 Indigenous studies professor - college	42101 industrial complex firefighter
41200 Indigenous studies professor - university	72103 industrial construction boilermaker
94100 indium refiner	70010 industrial construction manager
72106 induction brazer operator	73112 industrial construction painter
94101 induction furnace operator - foundry	22233 industrial construction safety inspector
93100 induction furnace operator - mineral and metal processing	22211 industrial design consultant
94100 induction machine setter - primary metal processing	22211 industrial designer
94100 induction machine tender - primary metal processing	40011 industrial development director - government services
72106 induction solderer	41402 industrial development officer
94100 induration attendant - iron ore	41402 industrial development representative
11100 industrial accountant	73200 industrial door installer
21200 industrial and commercial buildings architect	41401 industrial economist
11201 industrial and commercial methods analyst	21321 industrial efficiency engineer
90010 industrial and manufacturing production manager	94203 industrial electric equipment assembler
41220 industrial and vocational education teacher - secondary school	94203 industrial electric equipment fabricator
41221 industrial arts teacher - elementary school	94203 industrial electric equipment inspector
41220 industrial arts teacher - secondary school	22233 industrial electric installation inspector
31112 industrial audiologist	72201 industrial electrical repairer
33109 industrial audiometric technician	72011 industrial electrical systems foreman/woman
11100 industrial auditor	72201 industrial electrician apprentice
73400 industrial backhoe operator	72201 industrial electrician lead hand
22110 industrial bacteriological technician	72201 industrial electrician
22110 industrial bacteriological technologist	72011 industrial electricians foreman/woman
21110 industrial bacteriologist	72011 industrial electricians supervisor
94205 industrial battery assembler	21321 industrial engineer
73209 industrial belt repairer	22302 industrial engineering analyst
94152 industrial binder - printing	20010 industrial engineering manager
72103 industrial boilermaker	41200 industrial engineering professor - university
94203 industrial brake and alternating current (AC) motor assembler	21321 industrial engineering project manager
95106 industrial butcher helper	22302 industrial engineering technician
	22302 industrial engineering technologist
	14401 industrial engines and equipment apprentice

14401 industrial engines and equipment partsperson - retail	70012 industrial maintenance manager
62100 industrial equipment sales engineer	73112 industrial maintenance painter
40041 industrial fire chief	94141 industrial meat chopper
42101 industrial firefighter	94141 industrial meat cutter
21111 industrial forester	72400 industrial mechanic and millwright
72320 industrial furnace bricklayer	72400 industrial mechanic apprentice
72320 industrial furnace brickmason	75119 industrial mechanic helper
95100 industrial furnace cleaner - primary metal and mineral products processing	72400 industrial mechanic
72302 industrial gas fitter-tester	72020 industrial mechanics foreman/woman
72302 industrial gas servicer	72020 industrial mechanics supervisor
41409 industrial geographer	72400 industrial mechanic-welder
22232 industrial health officer	31102 industrial medical officer
72103 industrial heat exchanger boilermaker	31102 industrial medicine physician
72400 industrial hoist mechanic	21103 industrial meteorologist
40010 industrial hygiene and health director - government services	72422 industrial motor winder-repairer
21320 industrial hygiene engineer	94107 industrial needle machine setter-operator
22232 industrial hygiene inspector	94107 industrial needle machine set-up operator
22100 industrial hygiene technologist	94107 industrial needle maker
41400 industrial hygienist	31301 industrial nurse
22312 industrial instrument mechanic	14402 industrial order completion checking clerk
22312 industrial instrument panel repairer	72320 industrial oven brickmason
75119 industrial instrument repairer helper	94213 industrial paint baker
22312 industrial instrument service technician	94213 industrial paint dipper
22312 industrial instrument technician	94213 industrial paint finisher
22312 industrial instrumentation and control technician	94213 industrial paint mixer
22312 industrial instrumentation and electrical technician	94213 industrial paint sprayer operator
41210 industrial instrumentation teacher	94213 industrial painter
22312 industrial instrumentation technician	94213 industrial painters lead hand
94107 industrial knitting needle machine feeder	31120 industrial pharmacist
41101 industrial lawyer	53110 industrial photographer
73310 industrial locomotive engineer	31102 industrial physician
72020 industrial machinery assembly foreman/woman	65312 industrial plant cleaner
72400 industrial machinery maintenance mechanic	62024 industrial plant cleaning supervisor
72020 industrial machinery manufacturing foreman/woman	72400 industrial plant maintenance mechanic
72020 industrial machinery mechanics foreman/woman	22312 industrial process control equipment repairer
75119 industrial machinery oiler	22211 industrial products designer
62100 industrial machinery sales representative	94213 industrial products painter
	72400 industrial pump repairer
	22230 industrial radiographer - radiotelephony
	22230 industrial radiographer
	11200 industrial relations consultant

41401 industrial relations economist	40042 infantry officer
10011 industrial relations manager	44200 infantry soldier
11200 industrial relations officer	42202 infants' daycare worker
21321 industrial safety engineer	31301 infection control coordinator - hospital
41210 industrial safety instructor	31301 infection control nurse
22232 industrial safety officer - occupational health and safety	31301 infection control officer
72400 industrial sewing machine mechanic	31100 infectious disease physician
94132 industrial sewing machine operator	31100 infectious disease specialist
95101 industrial sheet metal worker helper	31100 infertility specialist
72102 industrial sheet metal worker	94219 inflated ball moulder
64320 industrial site interpreter	64311 in-flight service manager
41409 industrial sociologist	55109 influencer
94213 industrial spray painter	21222 informatics applications analyst
11201 industrial standards quality auditor	21221 informatics business analyst
21210 industrial statistician	21222 informatics consultant
94205 industrial storage battery plate assembler	21222 informatics quality assurance (QA) analyst
62100 industrial supplies sales representative	21220 informatics security analyst
62100 industrial supplies salesperson	21220 informatics security consultant
64101 industrial tool sales representative	10022 information and communications manager
41401 industrial trade economist	14100 information and records clerk
92023 industrial truck assembly foreman/woman	51100 information and reference librarian
72423 industrial truck mechanic	64409 information clerk - customer service
75101 industrial truck operator	62023 information clerks supervisor
72423 industrial truck repairer	11202 information consultant
63221 industrial upholsterer	11202 information coordinator
14401 industrial warehouse person	14101 information desk clerk
95109 industrial washing machine tender	51110 information editor
21120 industrial waste control inspector	12112 information management technician
41400 industrial waste reduction program coordinator	14101 information officer - Elections Canada
21320 industrial waste treatment engineer	11202 information officer
92101 industrial waste treatment plant operator	21223 information resource analyst
72106 industrial welder	11202 information service coordinator
72020 industrial, farm and construction machinery mechanics and repairers foreman/woman	10022 information service manager
40011 industry, trade and technology director - government services	51100 information services librarian
41210 industry-based instructor	21222 information systems analyst - computer systems
41210 industry-based trainer	21221 information systems business analyst
42202 infant daycare workers supervisor	21222 information systems contingency planner
32102 infant transport attendant	20012 information systems development director
44200 infanteer	21221 information systems implementation consultant
	20012 information systems manager

20012 information systems operations director	41220 information technology teacher - secondary school
21222 information systems quality assurance (QA) analyst	22230 infrared technician
21221 information systems technical analyst	22230 infrared tester
21221 information systems technical specialist	22230 infrared thermographer
00014 information systems vice president - trade, broadcasting and other services	22230 infrared thermography technician
00012 information systems vice-president - financial, communications and other business services	21311 infrastructure architect - information technology (IT)
00015 information systems vice-president - goods production, utilities, transportation and construction	94100 ingot buggy operator
00013 information systems vice-president - health, education, social and community services and membership organizations	95100 ingot cladder
21222 information technology (IT) analyst	94100 ingot finishing operator
21222 information technology (IT) auditor	94100 ingot header
21221 information technology (IT) business analyst	94104 ingots inspector - primary metal processing
21222 information technology (IT) consultant	94140 ingredients scaler and dispenser - food and beverage processing
21222 information technology (IT) consulting account manager	32103 inhalation technologist
21223 Information technology (IT) data analyst	83100 in-hole drill operator - underground mining
20012 information technology (IT) development manager	84100 in-hole driller helper - underground mining
20012 information technology (IT) director	41101 in-house legal counsel
21222 information technology (IT) engineer	11200 in-house training manager
20012 information technology (IT) implementation manager	94111 injection blow moulding processing operator
20012 information technology (IT) Infrastructure engineering manager	94111 injection molding set-up operator
20012 information technology (IT) integration manager	94111 injection moulder - plastic manufacturing
21222 information technology (IT) operations analyst	94111 injection moulder operator - plastic manufacturing
21220 information technology (IT) project manager - cybersecurity	92013 injection moulding foreman/woman - rubber and plastic manufacturing
21222 information technology (IT) project manager	94111 injection moulding operator - plastic manufacturing
21220 information technology (IT) security analyst	94111 injection moulding processing operator
21220 Information technology (IT) security architect	92013 injection moulding supervisor - plastic products manufacturing
21220 information technology (IT) security consultant	22302 injection moulding technician
21220 information technology (IT) security specialist	72101 injection moulding tool and die maker
20012 information technology (IT) service delivery manager	72101 injection mouldmaker
21311 information technology (IT) solutions engineer	94111 injection operator - plastic manufacturing
21222 information technology (IT) specialist	94111 injection plastic moulder
22221 information technology (IT) support analyst	94111 injection-moulding machine lead operator - plastic manufacturing
22221 information technology (IT) support technician	94111 injection-moulding machine operator - plastic manufacturing
	73401 ink evaluation and press operator - printing
	73401 ink evaluation pressman/woman - printing
	95109 ink fountain cleaner - printing

94110 ink matcher	94152 inserting machine operator - printing
92011 ink preparation foreman/forewoman - chemical processing	74100 inserting machine tender - mail and parcel sorting
94110 ink purifier	83121 inshore fisherman/woman
53122 ink sketcher	95109 insole filler - footwear manufacturing
72602 inland navigation mate	94219 insole tape machine operator
54100 inline skating instructor	94219 insole-moulding machine operator
60031 inn manager	94219 insole-moulding machine tender
60031 inn operator	94219 insole-tacking machine operator
92013 inner tube building foreman/woman	94133 inspecting machine tender - textiles
92013 inner tube building supervisor	92010 inspecting, testing and grading foreman/woman - primary metal and mineral products processing
95104 inner tube checker - rubber products manufacturing	92015 inspection foreman/woman - textile processing
94112 inner tube finisher - rubber products manufacturing	40012 inspection services director - education
95104 inner tube inserter - rubber products manufacturing	43202 inspector - by-law enforcement
95104 inner tube repairer - rubber products manufacturing	41405 inspector - education
94112 inner tube skiver - rubber products manufacturing	94202 inspector - electrical appliance assembly
94112 inner tube sorter - rubber reclaiming	94201 inspector - electronic equipment manufacturing
94112 inner tube valve builder	94133 inspector - fabric products manufacturing
94112 inner tube vulcanizer tender - rubber products manufacturing	94133 inspector - fur products manufacturing
94112 inner-tube-processing equipment tender - rubber products manufacturing	94210 inspector - furniture manufacturing
60031 innkeeper	94203 inspector - large transformer manufacturing
21101 inorganic chemist	65320 inspector - laundry and dry cleaning
31100 inpatient physician	94104 inspector - metal processing
94200 in-process assembly inspector - automobile assembly	43202 inspector - municipal law enforcement
94202 in-process inspector - electric equipment manufacturing	94104 inspector - primary metal and mineral products processing
14112 input compositor - typesetting	94201 inspector - printed circuit board fabrication
14112 input operator - typesetting	94133 inspector - textiles
40010 inquiries and services chief - employment insurance	94123 inspector - wood processing
21110 insect physiologist	14202 inspector and bill collector - electric power company
51101 insectarium conservator	14202 inspector and bill collector - gas company
51101 insectarium curator	00011 inspector general of financial institutions
53100 insectarium interpreter	22111 inspector of perishable goods
94110 insecticide mixer	92015 inspector, grader, sampler and tester foreman/woman - fabric, fur and leather products manufacturing
95109 inserter - printing	72403 inspector-carman/woman - railway
	92021 inspectors and testers foreman/woman - electronic equipment fabrication, assembly, installation and repair

72205 installation and repair technician - telecommunications	42203 instructor of persons with developmental disabilities
72011 installation foreman/woman - telecommunications	42203 instructor of persons with disabilities
72205 installation service technician - cable television	42203 instructor of persons with intellectual disabilities
10030 installation superintendent - telecommunications	42203 instructor of persons with special needs
94201 installer - electronic equipment manufacturing	94200 instrument cluster assembler - motor vehicle manufacturing
72205 installer - telecommunications	72601 instrument flight rules air traffic controller
22311 installer and repairer - household and business equipment	22313 instrument inspector and tester - avionics
75119 installer helper - telecommunications	22312 instrument maintenance mechanic
72011 installers and repairers foreman/woman - telecommunications	22213 instrument man/woman - surveying
14202 instalment collector	22313 instrument mechanic - avionics
94140 instant coffee dryer	22312 instrument mechanic - utilities
94140 instant coffee extractor operator	22213 instrument operator - surveying
94140 instant powdered foods equipment operator	22313 instrument overhaul and repair mechanic - avionics
41210 institute of technology teacher	22313 instrument overhaul technician - avionics
72200 institution electrician	94200 instrument panel assembler - automobile assembly
43201 institution guard - correctional service	94200 instrument panel electrical tester - motor vehicle manufacturing
33102 institutional aide	22213 instrument person - surveying
63200 institutional cook	73209 instrument salvage inspector
64101 institutional food services sales representative	22313 instrument shop inspector - avionics
40020 institutional research director	33109 instrument sterilizer - medical
43100 instructional assistant - primary and secondary school	51122 instrumental music teacher - private, conservatory or studio lessons
51112 instructional designer	51122 instrumental musician
41210 instructor - business college	51122 instrumentalist
41210 instructor - commercial college	21310 instrumentation and control engineer
41210 instructor - company	21310 instrumentation engineer
41210 instructor - industry	22313 instruments and accessories inspector - avionics
41210 instructor - language school	72014 insulating contractor
41210 instructor - private training institute	94219 insulating panel maker
41210 instructor - technical school	94219 insulating tube winder
41210 instructor - technology institute	72321 insulation applicator
41210 instructor - vocational school	94219 insulation batt cutter operator
42203 instructor of persons who are blind	94219 insulation blanket maker
42203 instructor of persons who are deaf	75110 insulation blower helper
42203 instructor of persons who are hard of hearing	75110 insulation blower operator
42203 instructor of persons with a learning disability	75110 insulation blower
42203 instructor of persons with a mobility impairment	94121 insulation board dryer tender
42203 instructor of persons with a visual impairment	

94129 insulation board press tender	10020 insurance manager
72014 insulation contractor	10020 insurance managing director
94202 insulation cutter and former - electrical equipment manufacturing	42200 insurance paralegal
72014 insulation foreman/woman	14202 insurance premium collector
75110 insulation hoseman/woman	14201 insurance rater
94202 insulation installer - electrical equipment manufacturing	12202 insurance rating analyst
72321 insulation installer	10020 insurance regional manager
94107 insulation machine operator - metal products manufacturing	63100 insurance sales agent
94107 insulation machine operator	10020 insurance sales district manager
94103 insulation mat machine operator - stone products	10020 insurance sales manager
72321 insulation mechanic	63100 insurance sales representative
95100 insulation packer - mineral products manufacturing	63100 insurance sales supervisor
95104 insulation packer - rubber products manufacturing	63100 insurance salesman/woman
64101 insulation salesperson - wholesale	12202 insurance underwriter
72014 insulation specialists foreman/woman	73401 intaglio printer - printing
72014 insulation supervisor	73401 intaglio printing press operator
72321 insulator apprentice	41300 intake worker - social services
94103 insulator builder - clay products	92021 integrated circuit (IC) fabrication supervisor - electronic equipment manufacturing
75110 insulator helper	94201 integrated circuit assembler
95109 insulator tester	70020 integrated logistics manager
72321 insulator	70020 integrated logistics programs director
72014 insulators foreman/woman	92021 integrated-circuit-board fabrication supervisor - electronic equipment manufacturing
21210 insurance actuary	95102 integrator operator
12201 insurance adjuster	12104 integrity services investigator - government services
63100 insurance agent supervisor	12104 integrity services investigator - Service Canada
63100 insurance agent	12104 integrity services officer - government services
12203 insurance appraiser	12104 integrity services officer - Service Canada
10020 insurance benefits executive director	42201 intellectual disabilities worker
63100 insurance broker	41101 intellectual-property lawyer
10020 insurance claims service manager	41407 intelligence analyst - security
14201 insurance clerk - financial sector	41407 intelligence officer - security
00012 insurance company general manager	41407 intelligence operator - Canadian Armed Forces
12201 insurance inspector	41407 intelligence operator - security
42200 insurance law clerk	31301 intensive care nurse
41101 insurance lawyer	31301 intensive care unit (ICU) nurse
13111 insurance legal assistant	21233 interactive media consultant
22231 insurance loss prevention inspector	52120 interactive media designer
	21232 interactive media developer
	21232 interactive media programmer

51111 interactive media writer	11100 intermediate accountant
11109 interbanking arrangements officer	32102 intermediate care paramedic
73301 intercity bus driver	32100 intern optician
14201 interest clerk	31120 intern pharmacist
41400 interface ergonomist	31102 intern
40019 intergovernmental affairs chief	10010 internal audit manager
40019 intergovernmental affairs director	11100 internal audit project manager
41407 intergovernmental affairs officer	10010 internal audit services manager
40019 intergovernmental relations chief	11100 internal audit supervisor - finances
40019 intergovernmental relations director	11100 internal auditor - finances
75110 interior and exterior wall erector helper	11100 internal auditor
52121 interior decorating consultant	11100 internal auditors supervisor - finances
52121 interior decorator	94204 internal combustion engine assembler
52121 interior design consultant	21301 internal combustion engineer
52121 interior design project manager	31100 internal medicine specialist
41210 interior design teacher	41403 international aid and development project officer
52121 interior design technician	41403 international aid and development researcher
52121 interior designer assistant	10021 international banking manager
52121 interior designer	00012 international banking operations vice-president
73102 interior drywall installer	41402 international development and assistance researcher
73102 interior drywall systems installer	14101 international exchange operator - telephone system
72310 interior finish carpenter	41402 international marketing specialist
72310 interior finish joiner	40030 international program director - cooperative
75110 interior finisher helper	40019 international relations chief - government
94200 interior finishing assembler - automobile assembly	40019 international relations director - government
22114 interior plantscape specialist	41403 international relations specialist
85103 interior landscaper	52114 international service announcer-producer
82031 interior landscaping contractor	41320 international student adviser
52121 interior space designer	41401 international trade economist
72310 interior systems carpenter	40011 international trade policy assistant director - government services
94204 interior trailer finisher	40011 international trade policy manager - government services
94200 interior trim assembler - automobile assembly	70020 international traffic manager
72310 interior trimmer carpenter	60030 Internet café manager
75110 interior wall finisher helper	10022 Internet communications manager
14300 interlibrary loan clerk	52120 Internet graphic designer
74200 interlocking cabin switcher - railway yard	
72014 interlocking paving stone contractor	
73200 interlocking paving stone installer	

21234 Internet site developer	11103 investment broker
10022 Internet site manager	94101 investment caster - foundry
20012 Internet systems administrator	14200 investment clerk
22220 Internet Web site technician	11101 investment consultant
31100 internist	11103 investment dealer
53120 interpretative dancer	10020 investment director - financial brokerage
21110 interpretative naturalist	41401 investment economist
51114 interpreter for persons who are deaf	10021 investment manager - bank or trust company
51114 interpreter	10021 investment manager - banking, credit and investment
14111 interpreting machine operator - data entry	10020 investment manager - financial brokerage
53120 interpretive dancer	11103 investment representative
53100 interpretive guide - museum	11102 investment specialist
40019 interprovincial relations chief	10010 investments research director
14112 Intertype machine operator	14403 invoice and purchase order checker
14110 interview clerk	14200 invoice clerk
12101 interviewer - human resources	14403 invoice control clerk
14110 interviewer - survey or poll	93100 ion exchange operator
83100 in-the-hole (ITH) driller	32209 iridologist
21233 Intranet site designer	85102 Irish moss gatherer
21234 Intranet site developer	72106 iron brazer
33100 intra-oral dental assistant	94101 iron caster - foundry
53122 Inuit art sculptor	94101 iron moulder - foundry
14403 inventory analyst	94100 iron ore pellet agglomerating attendant
14403 inventory auditor	94104 iron pellet hardness tester - metal processing
14403 inventory clerk	72105 iron structure erector
12013 inventory clerks supervisor	65320 ironer - laundry and dry cleaning
14403 inventory control clerk	72010 ironwork contractor
10019 inventory control manager	72010 ironwork supervisor
12013 inventory control supervisor	72105 ironworker - metal building systems erector
22302 inventory control technician	72105 ironworker - ornamental
12013 inventory management officer	72105 ironworker - reinforcing rebar
10019 inventory manager	72105 ironworker apprentice
14403 inventory planner	72105 ironworker generalist
21110 invertebrate zoologist	75110 ironworker helper
51101 invertebrate zoology curator	72105 ironworker
51101 invertebrate zoology museum curator	72010 ironworkers foreman/woman
64410 investigations officer - postal service	21300 irrigation and drainage engineer
40040 investigative inspector - police	21112 irrigation consultant - agriculture
51113 investigative reporter	90011 irrigation district manager
41310 investigator - police	21300 irrigation engineer
11101 investment analyst	

22233 irrigation inspector - construction
82030 irrigation supervisor - agriculture
73200 irrigation system installer
73200 irrigation technician - installation and maintenance
22114 irrigation technician (except agriculture)
85101 irrigation worker - agriculture
85101 irrigator - agriculture
11201 ISO consultant
41220 Italian teacher - secondary school
42201 itinerant support service worker

J

95103 jack ladder tender
83100 jack leg drill operator - underground mining
75101 jack lift operator
84100 jack operator - underground mining
53123 jacket designer
94133 jacket manufacturing inspector
75110 jackhammer operator - construction
94131 jacquard card cutter - textiles
94131 jacquard card lacer - textiles
94131 jacquard card-cutting machine operator - textiles
94131 jacquard card-lacing machine operator - textiles
72400 jacquard loom fixer - textile manufacturing
94131 jacquard loom heddles tier
94131 jacquard loom knitter
94131 jacquard loom pattern changer
72400 jacquard loom setter - textile manufacturing
94131 jacquard loom weaver
94131 jacquard machine knitter
94131 jacquard machine operator
43201 jail guard
43201 jailer
92012 jam and jelly processing foreman/woman
94140 jam processor operator
62024 janitor supervisor
65312 janitor
60040 janitorial services manager
64101 janitorial services sales representative
53200 javelin thrower
65211 J-bar attendant
65211 J-bar operator
94131 jersey knitter
62202 jewel setter
62202 jeweller
92024 jewellery and silverware manufacturing worker foreman/woman
94219 jewellery annealer
62202 jewellery appraiser
94219 jewellery assembler
94219 jewellery assembly inspector
92024 jewellery assembly supervisor
94219 jewellery case assembler
62202 jewellery chaser
94219 jewellery cleaner
53123 jewellery designer
72101 jewellery die cutter
72101 jewellery die sinker
53124 jewellery engraver
94219 jewellery filer
62202 jewellery hammersmith
94219 jewellery inspector
92024 jewellery manufacturing foreman/woman
62202 jewellery model maker
62202 jewellery moulder
94219 jewellery parts assembler
95109 jewellery pickler and dipper
94219 jewellery polisher
62202 jewellery repairer
92024 jewellery repairing foreman/woman - manufacturing
62202 jewellery repairman/woman
94219 jewellery riveter
64100 jewellery salesperson
62202 jewellery sample maker
94219 jewellery solderer
60020 jewellery store manager
94219 jewellery strip roller
94219 jewellery turner
94219 jewellery wire finisher

94219 jewellery-soldering machine tender	94132 joiner sewing machine operator
72500 jib crane operator	94103 joint sawyer - concrete, clay and stone products
72101 jig and form maker	94124 jointer - woodworking
72311 jig builder - wood products manufacturing	94124 jointer operator - woodworking
94106 jig grinder set-up operator	94129 jointer tender - wood processing
72101 jig maker - die casting and plastic moulding	94124 jointing machine operator - woodworking
72101 jig maker - metal products manufacturing	94103 jollier - clay products
72101 jig maker	74200 journal box greaser - railway yard
72106 jig welder-fitter	51110 journal editor
72101 jig-bore tool maker	14200 journal entry audit clerk
94103 jigger operator - clay products	14200 journal entry clerk
94130 jigger operator - textile manufacturing	41200 journalism professor - university
95100 jigger operator helper - mineral products processing	41210 journalism teacher - college level
94103 jiggerman/woman - clay products	51113 journalist
94124 jigsaw operator - woodworking	72103 journeyman/woman boilermaker
75101 jitney driver - material handling	72320 journeyman/woman bricklayer
11200 job analyst	72320 journeyman/woman brickmason
11200 job and wage analyst	72311 journeyman/woman cabinetmaker
11200 job classification system analyst	72310 journeyman/woman carpenter
42203 job coach for persons with disabilities	73100 journeyman/woman cement finisher
14112 job compositor - typesetting	72200 journeyman/woman construction electrician
41321 job counsellor - government services	63200 journeyman/woman cook
41321 job counsellor	73102 journeyman/woman drywall installer
41403 job creation and employment services evaluation officer	72406 journeyman/woman elevator constructor
11200 job evaluation analyst	72406 journeyman/woman elevator mechanic
10011 job evaluation and salary research manager	73113 journeyman/woman floor covering installer
11200 job evaluation supervisor	73113 journeyman/woman floor mechanic
11200 job evaluator	72302 journeyman/woman gas fitter
94101 job moulder - foundry	73111 journeyman/woman glazier
12013 job order clerks supervisor - manufacturing	72401 journeyman/woman heavy-duty equipment mechanic
73401 job printer	72201 journeyman/woman industrial electrician
41321 job search trainer	72400 journeyman/woman industrial mechanic
40010 job training director - government services	72321 journeyman/woman insulator
65211 jockey helper	72105 journeyman/woman ironworker
65211 jockey room custodian	73102 journeyman/woman lather
65211 jockey valet	72204 journeyman/woman lineman/woman - telecommunications
53200 jockey	72100 journeyman/woman machinist
95109 jogger - printing	72320 journeyman/woman mason
75110 joiner helper - construction	72411 journeyman/woman motor vehicle body repairer

73112 journeyman/woman painter and decorator
72301 journeyman/woman pipefitter
73102 journeyman/woman plasterer
72300 journeyman/woman plumber
72402 journeyman/woman refrigeration and air conditioning mechanic
72105 journeyman/woman reinforcing ironworker
73110 journeyman/woman roofer
72102 journeyman/woman sheet metal worker
72301 journeyman/woman sprinkler system installer
72301 journeyman/woman steamfitter-pipefitter
72320 journeyman/woman stonemason
73101 journeyman/woman tilesetter
72101 journeyman/woman tool and die maker
72501 journeyman/woman water well driller
72106 journeyman/woman welder
41100 judge - law
53202 judge, sport competitions
41101 judicial assistant - Supreme Court
13111 judicial assistant
14103 judicial clerk
14103 judicial officer - court administrative services
42200 judicial officer - courts
42200 judicial officer
14103 judicial official
14103 judicial services administrator
54100 judo instructor
53200 judoka
53121 juggler
95106 juice blender
54100 jujitsu instructor
73209 juke box mechanic
94100 jumbo casting operator - zinc melting
83100 jumbo drill operator - underground mining
84100 jumbo drill operator helper - underground mining
83100 jumbo drill operator
94120 jumbo operator - sawmill
84100 jumbo operator helper - underground mining
53200 jumper
94103 junction maker - concrete, clay and stone products

63202 junior baker
14200 junior billing clerk
72603 junior engineer - water transport
22303 junior estimator - construction
11101 junior financial analyst
82020 junior foreman/woman - mining
41221 junior high school teacher
53201 junior hockey coach
14200 junior invoice clerk
14100 junior office clerk
12202 junior underwriter - insurance
51114 jurilinguist translator
42200 justice of the peace magistrate
42200 justice of the peace
41100 justice
41100 juvenile court judge

K

54100 karate instructor
65220 kennel attendant
65220 kennel keeper
60040 kennel manager
80020 kennel operator
65220 kennelman/woman
64321 keno dealer
64321 keno runner - casino
64321 keno writer
94140 ketchup maker
94100 kettle charger
94110 kettle operator - chemical processing
94110 kettle tender - chemical processing
94100 kettle tender - primary metal processing
94130 kettle tender - textile manufacturing
94140 kettleman/woman - food processing
60010 key accounts manager - sales
63102 key accounts specialist
52119 key dresser
52119 key grip
62010 key holder - retail store
14112 keyboard operator - typesetting

51122 keyboardist	95105 knitter helper
94106 keyseating machine operator	92015 knitting - textile processing foreman/woman
53201 kickboxing trainer	94131 knitting area patroller - textiles
32129 kidney dialysis technician	92015 knitting foreman/woman - textile processing
32129 kidney dialysis technologist	92015 knitting foreman/woman
94130 kier-boiler tender - textile manufacturing	94133 knitting inspector
95100 kiln cleaner - primary metal and mineral products processing	72400 knitting machine adjuster - textile manufacturing
95100 kiln door builder - mineral products processing	72400 knitting machine fixer - textile manufacturing
94103 kiln fireman/woman - clay products	72400 knitting machine mechanic
95100 kiln labourer - primary metal and mineral products processing	94131 knitting machine operator
95100 kiln labourer	72400 knitting machine setter - textile manufacturing
95100 kiln operator helper - mineral products manufacturing	94131 knitting machine tender
72320 kiln repair bricklayer	72400 knitting pattern setter - textile manufacturing
92010 kiln workers foreman/woman - clay products	92015 knitting supervisor - textile processing
94103 kilnman/woman - clay products	92015 knitting supervisor
94121 kiln-recaust operator - pulp and paper	94131 knotting machine operator - textiles
31204 kinanthropologist	94107 knurling machine feeder
41221 kindergarten teacher	63200 kosher foods cook
31204 kinesiologist	94143 kosher inspector - food and beverage processing
32109 kinesitherapist	
44100 kinship care provider	L
44100 kinship caregiver	95109 label brander
64409 kiosk information clerk	95106 label coder - food and beverage processing
64100 kiosk sales clerk	94122 label cutter - paper converting
73200 kitchen cabinet installer	95109 label heat tacker
73200 kitchen cupboard and vanity installer	94121 label operator - papermaking
52121 kitchen designer	94150 label printer
65201 kitchen helper	94219 label-cutting machine tender
62020 kitchen manager	65220 laboratory animal attendant
73200 kitchen unit installer	65220 laboratory animal care worker
94219 knife assembler	32104 laboratory animal technician
94107 knife blade polisher	32104 laboratory animal technologist
94219 knife inspector	31103 laboratory animal veterinarian
95109 knife parts cementer - processing and manufacturing	22100 laboratory assistant - applied chemistry
94219 knit tubing slitter tender	33101 laboratory assistant - medical
94133 knitted fabric inspector	21101 laboratory chemist
95105 knitted fabric turner	41201 laboratory demonstrator - post-secondary teaching assistance
94131 knitter - textiles	20011 laboratory director
	65311 laboratory equipment cleaner

73200 laboratory equipment installer	40010 labour regional director - government services
65311 laboratory facilities cleaner	11200 labour relations board officer
73200 laboratory furnishings installer	14102 labour relations clerk
21110 laboratory immunologist	41407 labour relations commission officer
20011 laboratory manager	11200 labour relations consultant
41201 laboratory supervisor - post-secondary teaching assistant	11200 labour relations coordinator
22101 laboratory technician - metallurgy	10011 labour relations director
41200 laboratory technology professor - university	10011 labour relations manager
22100 laboratory tester - pulp and paper	11200 labour relations officer
22100 laboratory tester	11200 labour relations returning officer
11200 labour adjudicator	11200 labour relations specialist
41403 labour affairs officer - labour policy	41403 labour standards analyst
22232 labour affairs officer - occupational health and safety	22232 labour standards officer
40010 labour demand analysis chief - government services	11200 labour union business agent
41401 labour economist	11200 labour union liaison officer
12101 labour force consultant	95102 labourer - chemical processing
41404 labour force planning consultant - health sector	95106 labourer - food and beverage processing
42200 labour law clerk	95102 labourer - gas utility
13111 labour law legal assistant	75101 labourer - material handling
42200 labour law paralegal	95101 labourer - metal fabrication
41101 labour lawyer	95100 labourer - metallurgy
40011 labour market analysis director - government services	95100 labourer - mineral and metal processing
41403 labour market analyst	85110 labourer - mining exploration
41401 labour market information analyst	95109 labourer - packaging company
41321 labour market information consultant	95109 labourer - packaging
41403 labour market information officer	95104 labourer - plastic products manufacturing
41403 labour market policy officer	95100 labourer - primary metal and mineral products processing
41403 labour mobility policy consultant	95109 labourer - printing
11200 labour organization agent	95103 labourer - pulp and paper
11200 labour organization business agent	95104 labourer - rubber products manufacturing
11200 labour organization business representative	75212 labourer - sanitary service
11200 labour organization liaison officer	95109 labourer - shoe manufacturing
40030 labour organization manager	95109 labourer - tannery
11200 labour organization negotiator	95105 labourer - textile processing
00013 labour organization president	75101 labourer - warehousing and storage
11200 labour organizer	95103 labourer - wood processing
41403 labour policy analyst	75212 labourer crew leader - public works
41403 labour policy officer	95106 labourers - food and beverage processing
	72021 labourers and other elemental workers foreman/woman - construction

92010 labourers foreman/woman - primary metal and mineral products processing	94112 laminating machine tender - rubber products manufacturing
53124 lace weaver - arts and crafts	94124 laminating press tender - woodworking
94131 lace weaver	94203 lamination stacker - industrial electrical equipment
95109 lacer - footwear manufacturing	94205 lamination-stacking machine tender - electrical equipment manufacturing
95109 lacer - sporting goods manufacturing	94205 lamp filament processor
94110 lacquer maker	84100 lamp keeper - underground mining
94213 lacquer-sprayer	92024 lamp shade fabrication foreman/woman
53201 lacrosse coach	94219 lampshade assembler
53201 lacrosse scout	94219 lampshade maker
94124 lacrosse stick bender - woodworking	94219 lampshade sewer
94124 lacrosse stick gouger - woodworking	12102 land agent
94219 lacrosse stick lacer	10029 land contracts manager
94124 lacrosse stick maker - woodworking	21300 land drainage engineer
94124 lacrosse stick planer - woodworking	22214 land information system (LIS) technician
94124 lacrosse stick shaper - woodworking	22214 land information system (LIS) technologist
53201 lacrosse team coach	12102 land negotiator
72500 ladle crane operator	42200 land registrar
94100 ladle operator - primary metal processing	14301 land registry clerk
94100 ladle pourer - primary metal processing	21203 land survey supervisor
94100 ladle pourer	22213 land survey technician
72320 ladle repair bricklayer	22213 land survey technologist
94124 lag bolt machine tender - woodworking	21203 land surveying party chief
74200 lag bolter operator - railway	21203 land surveyor
85100 lamb feedlot worker	42200 land titles clerk
94143 lamb grader	42200 land titles examiner
94104 laminated asbestos products inspector	41401 land use economist
94211 laminated beam inspector	21202 land use planner
94124 laminated bowl machine tender - woodworking	21202 land use specialist
94203 laminated core assembler - industrial electrical equipment	22300 land use technician
92022 laminating foreman/woman - furniture and fixtures manufacturing	85104 land-based seal hunter
92022 laminating foreman/woman	85104 land-based sealer
94121 laminating machine operator - paper mill	90011 landfill manager
94152 laminating machine operator - printing	95102 landfill scale operator
94112 laminating machine operator - rubber products manufacturing	92011 landfill supervisor
94152 laminating machine operator	95102 landfill weigh scale attendant
94122 laminating machine tender - paper converting	84110 landing buckler - logging
94111 laminating machine tender - plastic manufacturing	84110 landingman/woman - logging
	84110 landingman/woman
	13101 landlord/landlady

12102 landman/woman - oil and gas	31103 large animal veterinary internist
21201 landscape architect	94202 large electrical appliance assembler
22114 landscape architectural technician	94202 large electrical appliance assembly group leader
22114 landscape architectural technologist	94202 large electrical appliance assembly lead hand
20011 landscape architecture manager	94203 large power transformer coil winder
82031 landscape design contractor	94213 large surface spray painter
22114 landscape designer	94203 large transformer coil winder
85121 landscape gardener helper	94100 larry car operator
22114 landscape gardener	31101 laryngologist
85121 landscape gardening helper	94201 laser assembler - electronic equipment manufacturing
22114 landscape horticulturist	94151 laser beam colour scanner operator
85121 landscape labourer	72106 laser beam machine-welder operator
82031 landscape maintenance contractor	72106 laser beam welder
53122 landscape painter	72106 laser beam welding machine operator
82031 landscape service contractor	94105 laser cutter - metal fabrication
22114 landscape technician	21100 laser physicist
85121 landscape worker	94150 laser printer operator
22114 landscaper	22310 laser technician
82031 landscaping contractor	72106 laser welding operator
82031 landscaping foreman/woman	94201 laser-trimmer operator - electronic equipment manufacturing
41210 landscaping instructor	95109 last ironer - shoe manufacturing
82031 landscaping supervisor	94124 last remodeler - woodworking
41405 language assessor - education	94124 last repairman/woman - woodworking
41405 language assessor	94124 last trimmer - woodworking
41210 language instructor - language school	94124 last turner - woodworking
41210 language laboratory teacher - college level	94219 laster - footwear manufacturing (except rubber)
41200 language professor - university	94112 laster - rubber footwear manufacturing
40012 language programs assistant director	94124 last-lathe tender - woodworking
41210 language school instructor	53125 last-pattern grader
40020 language school manager	22100 latent fingerprint examiner
41221 language teacher - elementary school	92015 latex carpet-backing department foreman/woman
10011 language training director	94110 latex coagulation operator
41405 languages coordinator - education	94110 latex compounder
94130 lap machine tender - textile manufacturing	94112 latex ribbon machine operator - rubber products manufacturing
62202 lapidary	94112 latex thread machine operator - rubber products manufacturing
94130 lapper - textile manufacturing	95104 latex thread spooler - rubber products manufacturing
94130 lapper tender - textile manufacturing	
94106 lapping machine operator	
94130 lap-winder tender - textile manufacturing	
95106 lard bleacher - food and beverage processing	
94140 lard renderer - food and beverage processing	

94130 latex-coating machine operator - textile manufacturing	65320 laundry worker
94106 lathe hand - metal machining	41101 law and corporate affairs adviser
94106 lathe machining operator	12012 law archivists supervisor
94103 lathe operator - concrete products	42200 law clerk to judge
94106 lathe operator - metal machining	42200 law clerk
94124 lathe operator - woodworking	41210 law enforcement teacher
94124 lathe sander - woodworking	51100 law librarian
94129 lathe spotter - wood processing	41101 law partner
94124 lathe turner - woodworking	41200 law professor - university
73102 lather (interior systems mechanic)	51113 law reporter
73102 lather applicator	41210 law teacher - police college
73102 lather apprentice	72429 lawn and garden equipment technician
73102 lather	64100 lawn and garden supplies salesperson - retail
72014 latherer supervisor	82031 lawn care contractor
72014 lathers foreman/woman	85121 lawn care labourer
72014 lathers supervisor	82031 lawn care service contractor
41220 Latin teacher - secondary school	22114 lawn care specialist
75210 launch captain	22114 lawn care superintendent
75210 launch master	82031 lawn care supervisor
75210 launch operator	85121 lawn care worker
75210 launch owner-operator	82031 lawn maintenance contractor
65320 launderer	85121 lawn mower
62029 launderers supervisor	85121 lawn-mowing worker
65329 laundromat attendant	41101 lawyer
62029 laundry and dry cleaning foreman/woman	42200 lay notary public
62029 laundry and dry cleaning forewoman	53125 layer-out and patternmaker
00014 laundry and dry cleaning general manager	95109 layer-up - garment manufacturing
60040 laundry and dry cleaning manager	92015 layout and marking foreman/woman - fabric, fur and leather products manufacturing
65320 laundry attendant	53125 lay-out and patternmaker
65320 laundry finisher	52120 layout artist
65320 laundry helper	52120 layout designer
65320 laundry labourer	72311 layout marker - cabinetmaking
65320 laundry machine operator	94105 lay-out marker - metal products manufacturing
60040 laundry manager	94124 lay-out marker - woodworking
62029 laundry production supervisor	94219 layout table hemmer
75201 laundry route driver	94129 layup machine operator - wood processing
60040 laundry service manager	95109 lay-up worker - garment manufacturing
64101 laundry services sales representative	94100 leaching operator - primary metal processing
62029 laundry supervisor	94205 lead acid battery parts inspector
94103 laundry tub moulder - concrete products	

94205 lead acid battery production tester - electrical equipment manufacturing	73111 leaded glass glazier
94205 lead acid electrical battery production tester	00010 leader of the opposition
94205 lead acid storage battery plate former - electrical equipment manufacturing	94100 lead-melting furnace tender - metal processing
94205 lead acid storage battery plate maker	94100 lead-melting kettle tender - metal processing
94205 lead acid storage battery tester - electrical equipment manufacturing	93100 lead-refining furnace operator
94205 lead acid storage battery tester	94100 lead-smelting furnace tender - metal processing
94100 lead and copper refiner	94100 lead-smelting kettle tender - metal processing
72106 lead burner	94200 leaf spring assembler - motor vehicle manufacturing
94100 lead caster - primary metal processing	94105 leaf spring inspector
94101 lead casting machine operator	94105 leaf spring maker - metal fabrication
94213 lead coater	41320 learning and study skills specialist
92011 lead collections operator - water treatment	40012 learning programs director - adult education
21211 lead data scientist	40012 learning programs director - early-childhood education
21231 lead development and operations (DevOps) engineer	40012 learning programs director - elementary education
94100 lead dust treator	40012 learning programs director - secondary education
94100 lead extruder operator - primary metal processing	13100 lease administration supervisor
94105 lead fabricator	42200 lease and title clerk
22310 lead flight simulator technician	94131 lease worker - textiles
94205 lead former - electrical equipment manufacturing	85111 leasehand - oil and gas drilling
82031 lead grower - cannabis	85111 leasehand
94210 lead hand assembler - furniture manufacturing	94131 leaser - textiles
72203 lead lineman/woman - electric power systems	13101 leasing and development officer - public works
72203 lead lineman/woman - electricity production and transmission	94131 leasing machine tender - textiles
93101 lead operator - chemical processing	10020 leasing manager - real estate
94110 lead oxide maker - chemical processing	64101 leasing services sales representative
94110 lead oxide mill tender - chemical processing	94219 leather bag maker
95100 lead reclaimor - primary metal processing	94132 leather bag sewer
94100 lead refiner	95109 leather belt maker
92010 lead refining foreman/woman	94130 leather buffer - hide and pelt processing
94101 lead shot caster - foundry	94219 leather case maker
21231 lead software engineer	21101 leather chemist
72203 lead splicer - electric power systems	65320 leather cleaner - laundry and dry cleaning
72106 lead welder	95109 leather coater
94100 lead wheel operator	95105 leather cutter - leather footwear manufacturing
94100 lead-casting machine operator - primary metal processing	95105 leather cutter
	94130 leather dyer - hide and pelt processing
	65320 leather finisher - dry cleaning

92015 leather finishing foreman/woman - hide and pelt processing	53124 leather worker
95105 leather garment cutter - manufacturing	94132 leather-glove-stitching machine operator
94132 leather garment sewer	94132 leather-sewing machine operator
94132 leather garment sewing machine operator	95105 leather-stripping machine tender - leather products manufacturing
94133 leather glove examiner	41210 lecturer - college
94132 leather glove repairer	41200 lecturer - university
95109 leather glove worker	14200 ledger clerk
60020 leather goods and clothing store manager	14201 ledger control clerk - financial sector
94133 leather goods inspector	14201 ledger control clerk
64100 leather goods salesperson - retail	14201 ledger control officer - financial sector
94213 leather goods spray painter	13111 legal administrative assistant
94213 leather goods sprayer	41101 legal advisor
94133 leather grader	41101 legal advocate
94219 leather handbag maker	41101 legal aid lawyer
95105 leather harness maker	13111 legal assistant - criminal law
94133 leather inspector	41210 legal assistant program teacher
95105 leather marker	13111 legal assistant
94130 leather measurer - hide and pelt processing	41101 legal attaché
65320 leather or suede sprayer - laundry and dry cleaning	41101 legal counsel
94130 leather polisher - hide and pelt processing	10019 legal department chief
95105 leather pressman/woman	10019 legal department director
95109 leather processing labourer	10029 legal firm manager
94219 leather products assembler	41101 legal officer - Canadian Armed Forces
92015 leather products manufacturing foreman/woman	41101 legal officer
53125 leather products patternmaker	42200 legal researcher
94132 leather products sewing machine operator	41210 legal secretarial program teacher - community college
94219 leather purse maker	13111 legal secretary
95105 leather rifle case maker	42200 legal services officer - courts
94219 leather riveter - footwear manufacturing	12012 legal services record writers supervisor
94130 leather sander - hide and pelt processing	13111 legal stenographer
94132 leather sewer	22213 legal survey assistant
94130 leather shaver - hide and pelt processing	22213 legal survey technician
94133 leather sorter	22213 legal survey technologist
94130 leather stainer - hide and pelt processing	21203 legal surveyor
94133 leather stock inspector	42200 legal technician
94130 leather stretcher - hide and pelt processing	51114 legal terminologist
94130 leather tanner	51114 legal translator
94133 leather tanneries inspector	41101 legislative adviser
95105 leather trunk maker	40030 legislative assembly clerk

40019 Legislative Assembly services director	11109 lending solutions manager
12100 legislative assistant	95109 lens blank marker
00010 legislative body speaker	95109 lens block cleaner
41407 legislative committee officer	95109 lens blocker
41407 legislative council officer	94219 lens edger feeder - non-prescription
41101 legislative counsel	94219 lens edger tender - non-prescription
40019 legislative services director	92024 lens grinder and polisher foreman/woman
00010 legislator	33109 lens grinder-polisher setter
41406 leisure activities consultant	95109 lens hardener
41406 leisure activities counsellor	92024 lens manufacturing (non-prescription) supervisor
41406 leisure activities program coordinator	33109 lens marker - health support services
50012 leisure administrator in chief	33109 lens marker - ophthalmic
50012 leisure administrator	94219 lens-grinding machine tender - non-prescription
41406 leisure analyst	94219 lensometer operator - non-prescription
65211 leisure and sports attendant	94219 lens-polisher operator - non-prescription
50012 leisure and sports director	94219 lens-polishing machine operator - non-prescription
65211 leisure attendant	94219 lens-silverer operator - non-prescription
50012 leisure centre director	94219 lens-silvering machine operator - non-prescription
50012 leisure centre sports director	74101 letter carrier
50012 leisure chief administrator	72025 letter carriers supervisor
41406 leisure consultant	74100 letter sorting clerk
41406 leisure coordinator	52111 lettering artist
41406 leisure counsellor	72022 letterpress foreman/woman - printing
50012 leisure director	73401 letterpress operator - printing
50012 leisure establishment director	73401 letterpress proof press operator - printing
50012 leisure establishment managing supervisor	73401 letterpress proof puller - printing
65211 leisure facility attendant	72022 letterpress room foreman/woman
50012 leisure head administrator	82020 level boss - underground mining
50012 leisure manager	52120 level designer
41406 leisure policy analyst	95109 level vial setter
41406 leisure program coordinator	94124 leveller operator - woodworking
54100 leisure program leader	95103 leverman/woman - wood processing
50012 leisure programs director	51111 lexicographer
50012 leisure programs manager	12201 liability adjuster - insurance
50012 leisure service director	14201 liability clerk - financial sector
50012 leisure service manager	10020 liability trading manager
41406 leisure services coordinator	12202 liability underwriter
72423 leisure vehicle technician (except recreational vehicles)	51100 liaison librarian
63102 lending services officer	31301 liaison nurse
63102 lending services trainee	

13100 liaison officer	40042 lieutenant general
51100 librarian	40042 lieutenant
41220 librarian-teacher - high school	00010 lieutenant-governor
14300 library aide	21210 life actuary
51101 library and archives conservator	42201 life coach
14300 library assistant	54100 life enrichment coordinator - recreation and fitness
50010 library chief	63100 life insurance agent
14300 library clerk	63100 life insurance representative
12012 library clerks supervisor	63100 life insurance salesman/woman
51100 library consultant	41200 life sciences professor - university
51100 library coordinator	20011 life sciences program manager
51101 library curator	22110 life sciences research technician
50010 library director	42201 life skills coach
14300 library filer	42201 life skills instructor
12012 library loans supervisor	12202 life underwriter
14300 library page	54100 lifeguard
41200 library science professor - university	75101 lift driver
51100 library supervisor	75101 lift jack operator
52100 library technician	62029 lift operation supervisor
14301 licence clerk	75101 lift scoop operator
12012 licence clerks supervisor	72423 lift truck mechanic
43202 licence inspector	75101 lift truck operator
32100 licensed contact lens practitioner	22231 lifting gear inspector
63200 licensed cook	92023 light agricultural and farm equipment assembly foreman/woman
13200 licensed customs broker	94204 light agricultural equipment assembler
33100 licensed dental assistant	94204 light agricultural machinery assembler
32111 licensed dental therapist	92023 light agricultural machinery assembly foreman/woman
32100 licensed dispensing optician	52119 light board operator
32109 licensed hearing instrument specialist	94205 light bulb inspector and tester
52121 licensed interior designer	94205 light bulb inspector
31303 licensed midwife	94205 light bulb maker
32101 licensed nursing assistant	94205 light bulb making inspector
32100 licensed optician	94205 light bulb making machine operator
32101 licensed practical nurse (L.P.N.)	94205 light bulb tester
64410 lie detector examiner	94204 light construction equipment assembler
51122 lied singer	92023 light construction machinery assembly foreman/woman
40042 lieutenant - Canadian Army	65310 light duty cleaner
40042 lieutenant - Royal Canadian Air Force	94204 light farm equipment assembler
40042 lieutenant - Royal Canadian Navy	
40042 lieutenant colonel	
40042 lieutenant commander	

94202 light fixtures assembler	94100 lime kiln operator
94204 light industrial truck assembler	94103 lime mixer operator
92023 light industrial, farm and construction machinery assembly foreman/woman	94103 lime mixer tender
94204 light material-handling equipment assembler	92010 lime preparation foreman/woman
92023 light material-handling equipment assembly foreman/woman	95100 lime slaker
75101 light materials handler	94121 lime sludge mixer
72024 light rail transit (LRT) operators foreman/woman	94130 limer - hide and pelt processing
72024 light rail transit (LRT) operators supervisor	85110 limestone spreader - underground mining
73301 light rail transit operator	21110 limnologist
94200 light truck assembler - automobile assembly	75200 limousine driver
62100 light, heat and power sales engineer	72011 line and cable contractor
94205 light-bulb-sealing machine operator - electrical equipment manufacturing	72011 line and cable installation and maintenance supervisor
94205 light-bulb-sealing machine tender - electrical equipment manufacturing	72011 line and cable installation foreman/woman
75210 lighthouse keeper	72011 line and cable installers foreman/woman
64100 lighting appliance salesperson - retail	72011 line and cable repairer foreman/woman - power lines
53111 lighting assistant	72011 line and cable workers supervisor
53123 lighting designer	94124 line and frame pole worker - wood products
52119 lighting effects chief technician	94202 line assembly utilityman/woman - electrical equipment manufacturing
94202 lighting fixture assembler	72203 line checker - electric power systems
94202 lighting fixture assembly section leader	21310 line construction engineer
64101 lighting fixture sales representative - wholesale (non-technical)	63200 line cook
94202 lighting fixtures wirer	84100 line crew blaster - underground mining
64100 lighting salesperson - retail	53120 line dance teacher
52119 lighting technician	53120 line dancer
22310 lighting technologist	51110 line editor
62100 lighting, heating and power sales representative	83121 line fisherman/woman
62100 lighting, heating and power sales specialist	72011 line foreman/woman - power lines
73200 lightning cable installer	72011 line foreman/woman - telecommunications
75110 lightning rod erector helper	72204 line inspector - telecommunications
73200 lightning rod installer	72203 line installation trainee - electric power systems
94110 light-oil extractor operator	72204 line installer - telecommunications
95100 lime kiln helper - mineral products processing	74204 line locator - utilities
95103 lime kiln helper - pulp and paper	72203 line maintainer - electric power systems
94100 lime kiln operator - mineral and metal processing	72203 line patroller - electric power systems
94121 lime kiln operator - pulp and paper	72203 line repairer - electric power systems
95100 lime kiln operator helper - mineral products processing	72204 line repairer - telecommunications
	72203 line servicer - electric power systems
	94130 line spooler
	73300 line-haul driver

73300 line-haul truck driver	94107 link wire machine tender
83110 linehorse operator	95106 linking machine tender - food and beverage processing
72203 lineman/woman - electric power systems	73113 linoleum floor covering installer
72203 lineman/woman - electric streetcar	73113 linoleum floor covering layer
75119 lineman/woman helper - power and communication lines	73113 linoleum floor installer
75119 lineman/woman helper	73113 linoleum floor layer
72203 lineman/woman trainee - electric power systems	94111 linoleum floor tile backer
72203 lineman/woman trainee - electricity production and transmission	94111 linoleum floor tile calender operator
14401 linen room attendant	94212 linoleum inspector
14401 linen supply clerk	94212 linoleum line inspector
14401 linenkeeper	94110 linoleum oil oxidizer
75212 line-painting machine operator - highways and roads	94212 linoleum quality control inspector
94122 liner machine operator - paper converting	14112 Linotype composing machine operator
75119 liner replacer - ore-processing equipment	72400 linotype repairer
94112 liner reroller - rubber products manufacturing	94140 linseed oil extractor
22310 lines distribution design technologist	94219 lint roller brush assembler
75210 lineshandler - canal lock system	42203 lip-reading instructor
75210 linesman/woman - canal lock system	42203 lip-reading teacher
72999 linesman/woman - shipbuilding	93101 liquefaction plant operator
94200 line-up adjuster - motor vehicle manufacturing	94110 liquefied gas drum filler
51110 line-up editor	73300 liquid fertilizer truck driver
94151 lineup examiner - printing	21320 liquid fuels engineer
94200 line-up man/woman - motor vehicle manufacturing	95106 liquid packer
72203 lineworker - electrical power systems	22230 liquid penetrant technician - non-destructive testing
75119 lineworker helper	22230 liquid penetrant testing technician
41409 linguist	94140 liquid sugar operator
41409 linguistic anthropologist	90011 liquid waste facility manager
41200 linguistics associate professor	92101 liquid waste process operator
41200 linguistics department chairman/woman - university	92101 liquid waste processing plant operator
41200 linguistics department chairperson - university	92101 liquid waste treatment plant operator
41200 linguistics department head - university	75101 liquids loader-unloader
41200 linguistics professor - university	94140 liquor blender - food and beverage processing
94132 lining sewer	43202 liquor board licence inspector
94132 lining stitcher	00011 liquor commissioner
95109 link cutter - garment manufacturing	14403 liquor controller - inventory
94131 link machine knitter	94140 liquor gallery tender - food and beverage processing
94107 link wire machine set-up operator	95106 liquor gallery tender helper - food and beverage processing
	43202 liquor licence inspector

94121 liquor maker - pulp and paper	82030 livestock exchange contractor
64101 liquor sales representative - wholesale	80020 livestock farmer
64101 liquor sales representative	82030 livestock foreman/woman
60020 liquor store manager	22111 livestock inspector
64100 liquor store sales clerk	94141 livestock killer
62010 liquor store supervisor	85100 livestock labourer
94143 liquor tester - food and beverage processing	20011 livestock production programs manager
41405 literacy coach	20011 livestock program development manager
11202 literary agent	82030 livestock raising foreman/woman
51113 literary critic	62100 livestock sales representative - wholesale
51110 literary editor	21112 livestock specialist
51114 literary translator	85100 livestock weigher
51111 literary writer	84120 livestock yard attendant
41200 literature professor - university	84120 livestock yardman/woman
52120 litho artist	64312 load agent - airline
53122 lithographic artist	64312 load control agent - airline
95109 lithographic offset press feeder	12013 load control supervisor
73401 lithographic offset proofer	92100 load dispatcher - electrical power systems
73401 lithographic offset proofing hand	95102 loader - chemical processing
94151 lithographic plate preparer	73400 loader operator - construction
94151 lithographic platemaker	83110 loader operator - logging
73401 lithographic press operator - printing	75101 loader-unloader - material handling
73401 lithographic pressman/woman - printing	83100 load-haul-dump (LHD) operator - underground mining
73401 lithographic printer	72021 loading and moving foreman/woman - construction
13111 litigation administrative assistant	75210 loading bridge operator - ferry
42200 litigation law clerk	75210 loading bridge operator
13111 litigation legal assistant	72021 loading dock foreman/woman
42200 litigation paralegal	82010 loading foreman/woman - logging
13111 litigation secretary	84100 loading head operator - underground mining
41101 litigator	94110 loading inspector - chemical processing
44101 live-in caregiver - persons with disabilities	83100 loading machine operator - underground mining
44101 live-in caregiver - seniors	84100 loading pocket operator - underground mining
44101 live-in caregiver	74203 loading shovel oiler
65312 live-in caretaker	10021 loan and credit manager - banking or trust company
44100 live-in nanny	14201 loan clerk - financial sector
82030 livery stable foreman/woman	14202 loan collector
84120 livestock attendant	63102 loan inspector
82030 livestock breeding service contractor	63102 loan officer
62101 livestock buyer	63102 loans adviser
60020 livestock dealer	
84120 livestock driver	

63102 loans agent	72999 locksmith
63102 loans analyst	72999 locksmithing expert
13110 loans and grants administrative assistant	74200 locomotive attendant - railway yard
63102 loans counsellor	72405 locomotive builder
10021 loans manager trainee	72500 locomotive crane operator
10021 loans manager	72500 locomotive craneman/woman
63102 loans supervisor	72604 locomotive dispatcher
00013 lobby chief executive officer - health, education, social and community services and membership organizations	74200 locomotive distributor - railway yard
65210 lobby porter	94203 locomotive electrical inspector
22110 lobster culture technician	74200 locomotive engine servicer
80022 lobster farmer	73310 locomotive engineer - railway
83121 lobster fisherman/woman	72020 locomotive erecting shop foreman/woman
85102 lobster pound attendant	72405 locomotive fitter
94142 lobster processor - fish processing	73310 locomotive hostler
22220 local area network (LAN) administrator	72020 locomotive inspectors foreman/woman
22220 local area network (LAN) manager	74200 locomotive maintenance attendant
22220 local area network (LAN) operator	72401 locomotive mechanic
22220 local area network (LAN) technician	94213 locomotive painter
00011 local government manager	74200 locomotive servicer
40010 local health services director - government services	31102 locum doctor
51110 local news editor	65310 lodge cleaner
64320 local tour guide	60031 lodging house manager
73300 local truck driver	62022 lodging house managing supervisor
51114 localiser - linguistics	65310 lodging-establishment cleaner (except private households)
52119 location manager - motion pictures and broadcasting	94219 loft rigger - boat assembly
14202 locator - collection	72999 loftsmen/women - aircraft manufacturing
94219 lock assembler	72999 loftsmen/women - shipbuilding
72999 lock expert	22101 log analyst
72999 lock fitter	74201 log boom tugboat deckhand
94219 lock maker	62101 log buyer
75210 lock operator	94129 log cooker - wood processing
72999 lock repairer	94120 log cut-off operator - sawmill
72999 lock repairman/woman	94120 log cut-off operator
72999 lock setter	94120 log cut-off sawyer - sawmill
94140 locker plant attendant - food and beverage processing	84110 log cutter
65329 locker room attendant	95103 log deck tender
75210 lockmaster	85120 log driver
	95103 log feeder
	94120 log gang saw operator - sawmill
	94120 log gang sawyer - sawmill

22112 log grader	73300 logging truck driver
95103 log handler	83110 logging truck loader
94120 log haul cut-off saw operator - sawmill	13201 logistician
73300 log hauler	13201 logistics analyst
94120 log hoist operator - sawmill	70020 logistics analytics manager
72310 log home builder	14405 logistics clerk - transportation
72310 log home carpenter	13201 logistics coordinator
72310 log home carpenter-builder	70020 logistics director - transportation
83110 log loader operator	13201 logistics inbound/outbound coordinator - production
83110 log loading machine operator	13201 logistics lead
83110 log process operator	90010 logistics manager - manufacturing
83110 log processor operator	70020 logistics manager - transportation
85120 log rider	10012 logistics officer - Canadian Armed Forces
22112 log scaler	70020 logistics operations director
22101 log technician	13201 logistics planner
95103 log transfer tender	13201 logistics specialist
73300 log truck driver	12013 logistics supervisor
94129 log vat tender - wood processing	12013 logistics team leader
82010 log yarding boss	00015 logistics vice-president - goods production, utilities, transportation and construction
84110 logger	31112 logopedist
82010 loggers supervisor - forestry	94140 lollipop maker
85120 logging and forestry labourer	73300 long combination vehicle (LCV) driver
83101 logging and perforating operator - oil field services	73301 long distance bus driver
83101 logging and perforating operator	14101 long distance telephone operator
63200 logging camp cook	73300 long distance truck driver
65201 logging camp cook's helper	73300 long haul driver
00015 logging company corporate controller	73300 long haul tractor-trailer driver
82010 logging contractor	73300 long haul transport driver
83110 logging crane operator	73300 long haul truck driver
82010 logging crew supervisor - forestry	33102 long term care aide
62100 logging equipment salesperson	83100 long-hole blaster - underground mining
82010 logging foreman/woman	83100 long-hole driller - underground mining
85120 logging labourer	83121 longline fisherman/woman
72405 logging machinery fitter	83121 longliner fisherman/woman
83110 logging machinery operator	21202 long-range planner - land use
80010 logging production manager	75100 longshore worker and tower-loader operator
72021 logging road construction foreman/woman	72021 longshore worker superintendent
72021 logging road construction supervisor	75100 longshore worker
82010 logging supervisor	72021 longshore workers foreman/woman
84110 logging tractor operator	

75100 longshoreman/woman	22302 loss prevention technologist - manufacturing
72021 longshoremen/women, stevedores and freight handlers foreman/woman	64409 lost claims clerk
41404 long-term care program consultant	64409 lost or damaged goods claim clerk
83100 longwall coal shearer operator	64401 lost package search clerk
55109 look-alike	94101 lost pattern caster - foundry
84111 lookout - forestry	64401 lost postal package search clerk
72400 loom changer	94101 lost wax caster - foundry
95105 loom cleaner	64409 lost-and-found clerk
95105 loom doffer - textile processing	64409 lost-and-found desk clerk
94131 loom drawer-in helper	65311 lot porter - auto cleaning
94131 loom drawer-in	64100 lottery kiosk clerk
72400 loom fixer - textile manufacturing	64100 lottery sales representative - retail
72400 loom fixer	43202 lottery supervisor - government services
94133 loom inspector	64301 lounge supervisor-bartender
72400 loom mechanic - textile manufacturing	65200 lounge waiter/waitress
72400 loom mechanic-repairer - textile manufacturing	73200 louvred fence erector
94131 loom operator	21310 low voltage equipment engineer
72400 loom pattern changer	73300 low-bed semi-trailer driver
72400 loom preparer	70011 low-rise residential home builder
72400 loom reed repairer - textile manufacturing	21100 low-temperature physicist
72400 loom repairer - textile manufacturing	72024 LRT (light rail transit) operators foreman/woman
72400 loom setter - textile manufacturing	72024 LRT (light rail transit) operators supervisor
94107 loom setter, wire weaving	94112 lube and splice operator - rubber products
72400 loom setter	62100 lubricating equipment salesperson
72400 loom starter	21301 lubrication engineer
72400 loom technician - textile manufacturing	74203 lubrication technician - automotive service and repair
72400 loom technician	14112 Ludlow machine operator
94112 loom tender - rubber products manufacturing	53201 luge coach
94131 loom threader helper	53201 luge instructor
94131 loom threader	92015 luggage assembly foreman/woman - fabric, fur and leather products manufacturing
94131 loom weaver	65210 luggage attendant
94130 loom-winder tender	94212 luggage binding assembler - plastic products manufacturing
94131 looper - textiles	64313 luggage checker (except airline)
72400 looper fixer - textile manufacturing	95109 luggage coverer
72400 looper setter - textile manufacturing	53123 luggage designer
94124 looping machine tender - wood products manufacturing	94219 luggage finisher
12201 loss examiner - insurance	95109 luggage handle maker
22231 loss prevention inspector - insurance	94219 luggage shell bonder operator
64410 loss prevention officers supervisor	53123 luggage stylist

62101 lumber buyer
94129 lumber drop sorter - wood processing
95103 lumber feeder - wood processing
94123 lumber grader
92014 lumber grading foreman/woman - wood processing
75101 lumber handler - building supplies
95103 lumber handler - wood processing
94123 lumber inspector
94129 lumber kiln operator
94123 lumber marker
90010 lumber mill manager
75101 lumber piler - building supplies
64101 lumber sales representative - wholesale
95103 lumber salvager - wood processing
94120 lumber sizer operator - sawmill
94129 lumber sorting machine operator - wood processing
75101 lumber stocker - material handling
95103 lumber straightener - wood processing
95103 lumber tailer - wood processing
14402 lumber tallyman/woman
95103 lumber tier - wood processing
75101 lumber unloader - material handling
84110 lumberjack
94140 lump maker - tobacco processing
94140 lump roller - tobacco processing
75100 lumper - marine cargo handling
45100 lunch assistant
45100 lunch monitor
45100 lunch supervisor
65201 lunchroom counter attendant
65201 lunchroom counterwoman/woman
45100 lunchroom monitor
45100 lunchtime monitor
31100 lung specialist
94130 lusterer - textile manufacturing
94140 lye peel tender - food and beverage processing
51121 lyricist

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94140 macaroni press operator
94150 machine advertising signs printer
94131 machine ball fringe maker
94205 machine base cement filler - electrical equipment manufacturing
94152 machine binder - printing
94152 machine bookbinder
94152 machine bronzer - printing
72405 machine builder
72405 machine builder-fitter
72020 machine builders foreman/woman
94107 machine bullet shaper - metal products manufacturing
94132 machine button sewer
94122 machine cardboard maker
94124 machine carver - woodworking
94103 machine cement pipe shaper - clay products
94107 machine chain maker
94107 machine chain tester
94140 machine cigar maker
95106 machine cigar wrapper
94152 machine collator and gluer - printing
94122 machine colour card maker
14112 machine compositor - typesetting
95106 machine container washer - food and beverage processing
94103 machine contour grinder - concrete, clay and stone products
94152 machine cutter - printing
94103 machine decorator - clay products
22301 machine designer
94219 machine drapery pleater
94213 machine enameller
53124 machine engraver - arts and crafts
94219 machine engraver - manufacturing
94122 machine envelope flap gummer - paper converting
95109 machine feeder
95105 machine felt cutter
72405 machine fitter charge hand

72405 machine fitter	65320 machine operator - laundry and dry cleaning
72020 machine fitters foreman/woman	94106 machine operator - metal machining
72020 machine fitters supervisor	94100 machine operator - mineral and metal processing
94130 machine flesher - hide and pelt processing	94200 machine operator - motor vehicle manufacturing
94152 machine folder - printing	94111 machine operator - plastic manufacturing
65320 machine fur cleaner	94111 machine operator - plastics processing
94152 machine gatherer and gluer - printing	94213 machine operator - plating and metal spraying
94103 machine greenware turner - clay products	74200 machine operator - railway
94219 machine hat presser - hat manufacturing	94130 machine operator - textile fibre, yarn, hide and pelt processing
94219 machine heel maker	94140 machine operator - tobacco processing
95100 machine helper - primary metal and mineral products processing	72106 machine operator - welding, brazing and soldering
94112 machine hose cutter and brander - rubber products manufacturing	95109 machine packager
94112 machine hose maker - rubber products manufacturing	94122 machine pad gluer - paper converting
94124 machine jointer, panels - woodworking	94124 machine panel jointer - woodworking
95105 machine knitter helper	94140 machine pie maker
94131 machine knitting mender	94140 machine plug moulder - tobacco processing
21211 machine learning engineer	94105 machine power saw operator
21211 machine learning specialist	65320 machine presser - laundry and dry cleaning
94131 machine loom drawer-in	11100 machine processing accountant
94131 machine loom threader	94205 machine riveter - electrical equipment manufacturing
72020 machine maintenance foreman/woman - manufacturing	94122 machine roll cutter - paper converting
94103 machine marble polisher - stone products	94122 machine roll slitter - paper converting
94150 machine marker	94106 machine router - metal machining
75119 machine mechanic-fitter helper	94124 machine sander - woodworking
94131 machine net maker - textiles	94205 machine set-up operator - electric equipment manufacturing
95104 machine offbearer - rubber products manufacturing	94205 machine set-up operator - electrical appliance manufacturing
94205 machine operator - electrical appliance and equipment manufacturing	94205 machine set-up operator - electrical equipment manufacturing
94205 machine operator - electrical appliance manufacturing	94111 machine set-up operator - plastic manufacturing
94205 machine operator - electrical equipment manufacturing	95101 machine shop bench hand - metal products manufacturing
94201 machine operator - electronic equipment manufacturing	72100 machine shop charge hand
94142 machine operator - fish processing	72201 machine shop electrical repairer
94140 machine operator - food and beverage processing	72010 machine shop foreman/woman
94132 machine operator - garment manufacturing	95101 machine shop helper - metal products manufacturing
94102 machine operator - glass forming and finishing	72100 machine shop inspector
	72010 machine shop inspectors foreman/woman

14401 machine shop keeper	94131 machine warp tier-in - textiles
94106 machine shop layer-out	65320 machine washer - laundry and dry cleaning
94106 machine shop layout marker	95109 machine wedger
72010 machine shop supervisor	72106 machine welder
94150 machine shotgun-shell printer	94100 machine wire drawer
94152 machine side stitcher - printing	94107 machine wire rewinder
94150 machine sign printer	94205 machine wire-cutter and wire-stripper - electrical equipment manufacturing
94150 machine sign writer	72100 machined parts inspector
94219 machine skiver - leather products manufacturing	72020 machinery assembly foreman/woman
94205 machine sleeve assembler - electrical equipment manufacturing	72405 machinery manufacturing fitter
94120 machine splitter - sawmill	72020 machinery manufacturing foreman/woman
95109 machine spreader - garment manufacturing	62100 machinery salesperson
94152 machine stitcher - binding	73209 machinery salvager
94103 machine stone buffer	94106 machine-tool setter - metal machining
94103 machine stone polisher	72100 machining and tooling inspector
94103 machine stone splitter	72010 machining and tooling inspectors foreman/woman
94140 machine stripper - tobacco processing	94106 machining equipment set-up operator
94131 machine tassel maker	92022 machining foreman/woman - furniture and fixtures manufacturing
95106 machine tobacco packer	72010 machining foreman/woman
72405 machine tool builder	72100 machining inspector
72405 machine tool builder-integrator	72010 machining inspectors foreman/woman
22301 machine tool designer	72010 machining supervisor
72010 machine tool grinding foreman/woman	72010 machining tool foreman/woman
72405 machine tool integrator	94106 machining tool operator
94106 machine tool operator - metal machining	72010 machining tool operators foreman/woman
72010 machine tool operators foreman/woman	72100 machinist apprentice
94106 machine tool setter	72100 machinist
94106 machine tool set-up man/woman	52119 machinist-electrician
94106 machine tool set-up operator	72010 machinists and machine tool set-up operators foreman/woman
94112 machine trimmer - rubber products manufacturing	72010 machinists foreman/woman
94204 machine try-out tester	72010 machinists supervisor
94205 machine tube assembler - electrical equipment manufacturing	64200 made-to-measure garment tailor
94122 machine tube maker - paper converting	51121 maestro
94205 machine tuber - electrical equipment manufacturing	65109 magazine distribution agent - retail
94122 machine tuber - paper converting	51110 magazine editor
72106 machine type solderer	14401 magazine keeper
14112 machine typesetter	64101 magazine sales representative - wholesale
	64101 magazine sales representative

64100 magazine salesperson - retail	64401 mail room clerk
64100 magazine shop clerk	72025 mail room supervisor
65109 magazine subscription solicitor	74102 mail service courier
55109 magician	14404 mail service dispatcher
41100 magistrate court judge	74100 mail sortation clerk
94105 magnetic flame cutting machine operator - metal fabrication	74100 mail sorter
22101 magnetic observer	74100 mail tracing clerk
22230 magnetic particle technician	64401 mailer
22230 magnetic particle tester	14301 mailing list compiler
22230 magnetic particle testing technician	74100 mailing machine operator
32121 magnetic resonance imaging (MRI) technologist	72400 mail-processing equipment mechanic
32121 magnetic resonance technologist	74100 mail-sorting system operator
94100 magnetic separator operator - primary metal processing	94106 main bearing borer - metal machining
94219 magnetic valve assembler	21230 mainframe systems programmer
21100 magnetism physicist	72300 maintenance and repair plumber (non-construction)
94201 magnetometer assembler - electronic equipment manufacturing	72300 maintenance and repair plumber
65310 maid - cleaning services	70012 maintenance and service manager
14101 mail and message distribution clerk	70012 maintenance and service superintendent
72025 mail and postal clerks supervisor	72103 maintenance boilermaker
74101 mail carrier	72320 maintenance bricklayer
72025 mail carriers supervisor	75110 maintenance carpenter helper
64401 mail clerk	72310 maintenance carpenter
72025 mail clerks supervisor	72310 maintenance carpenter-joiner
74101 mail collector	72013 maintenance carpenters foreman/woman
64401 mail counter clerk	73100 maintenance cement mason
74102 mail courier - courier service	70012 maintenance coordinator
74101 mail deliverer	70012 maintenance director
74100 mail dispatcher	72201 maintenance electrician - industrial
74100 mail distribution clerk	72011 maintenance electricians foreman/woman
72025 mail facilities senior administrator	72011 maintenance electricians supervisor
74100 mail filing clerk	21321 maintenance engineering lead - industrial and manufacturing
74100 mail handler	21301 maintenance engineering lead - mechanical
70021 mail operations manager	74205 maintenance equipment operator - public works
14100 mail order clerk	22233 maintenance inspector - construction
14100 mail order filler	72310 maintenance joiner
74100 mail processing clerk	75212 maintenance labourer - public works
70021 mail processing plant manager	72203 maintenance lineman/woman - electric power systems
70021 mail processing plant superintendent	72010 maintenance machine shop foreman/woman
64401 mail room assistant	72100 maintenance machinist

70012 maintenance manager	52119 make-up artist and hairdresser - performing arts
72400 maintenance mechanic - utilities	52119 make-up artist and wig maker
72400 maintenance mechanic technician - industrial	64201 make-up consultant
72400 maintenance mechanic	22110 malacology technician
72400 maintenance millwright	21110 malariologist
74200 maintenance of way employee - railway	94140 malt dryer tender - food and beverage processing
74200 maintenance of way inspector - railway	94140 malt house kiln operator - food and beverage processing
70012 maintenance operations manager	94140 malt roaster - food and beverage processing
70012 maintenance operations superintendent	94140 malthouse operator - food and beverage processing
73112 maintenance painter	75101 malthouse worker
73201 maintenance person - building	94140 maltster - food and beverage processing
72301 maintenance pipefitter	21110 mammalogist
70012 maintenance planner	22110 mammalogy technician
72300 maintenance plumber	22110 mammalogy technologist
64409 maintenance service clerk	32121 mammography technician
14404 maintenance services dispatcher	32121 mammography technologist
70012 maintenance services manager	11100 management accountant
72102 maintenance sheet metal worker	11100 management accounting chief
70012 maintenance superintendent	11201 management analyst
70012 maintenance support services chief	11201 management consultant
22230 maintenance technician - non-destructive testing (NDT)	10029 management consulting service manager
74204 maintenance utility worker	20012 management information system (MIS) manager
72106 maintenance welder	21222 management information systems (MIS) analyst
82031 maintenance worker supervisor - campground	21222 management information systems (MIS) consultant
72021 maintenance-of-way foreman/woman	13100 management planning officer
64300 maître d'	41210 management seminar leader
64300 maître d'hôtel	64401 management services clerk - mail and postal services
40030 major community projects coordinator	10019 management services division chief
72421 major electric appliance repairer	10029 management services division head - business services
73200 major electric household appliance installer	60020 management trainee - retail
72421 major electric household appliance repairer	00011 manager - First Nations
73200 major electrical appliance installer	10022 manager - marketing services
72421 major electrical appliance repairer	60020 manager - retail store chain
72421 major electrical appliance servicer	10010 manager of accounting department
40042 major general	10010 manager of auditing department
40042 major	80010 manager of mining operations
63211 make up artist - beauty salon, spa and retail	
52119 make-up artist - motion pictures, broadcasting and performing arts	
52119 make-up artist - special effects	

60020 manager trainee - retail	11100 manufacturing accountant
64301 managing bartender	00015 manufacturing company chief executive officer
10019 managing director	90010 manufacturing company manager
50011 managing editor - newspaper or periodical	92024 manufacturing coordinator
50011 managing editor	22302 manufacturing cost estimator
32100 managing optician	94202 manufacturing electrical tester
60020 managing supervisor - retail	21321 manufacturing engineer
53124 mandolin maker	21321 manufacturing engineering lead
94112 mandrel builder - rubber products manufacturing	90010 manufacturing industry manager
94130 mangler tender - textile manufacturing	72020 manufacturing machinery assembly foreman/woman
63211 manicurist	72405 manufacturing machinery fitter
94100 manipulator machine operator - primary metal processing	90010 manufacturing manager
94105 manipulator operator - metal forging	90010 manufacturing operations manager
52111 mannequin artist	94201 manufacturing operator - electronic equipment manufacturing
94219 mannequin assembler	14402 manufacturing order clerk
94111 mannequin moulder - plastic manufacturing	12013 manufacturing orders clerks supervisor
94219 mannequin wig maker	94213 manufacturing painter
32109 manual arts therapist	90010 manufacturing plant manager
75210 manual cable ferry operator	90010 manufacturing plant superintendent
14112 manual compositor	90010 manufacturing quality assurance (QA) director
75110 manual concrete vibrator operator	20011 manufacturing research director
75110 manual curb builder	22302 manufacturing technician - industrial engineering
94101 manual moulder	22302 manufacturing technician
75212 manual sewer pipe cleaner	22302 manufacturing technologist
75212 manual sidewalk cleaner	51110 manuscript editor
75110 manual stone spreader operator	14301 manuscript proofreader
75212 manual street cleaner	14100 map clerk
75212 manual street sweeper	22214 map draftsman/woman
75110 manual terrazzo grinder	22214 map editor
51112 manual writer	82030 maple products foreman/woman - agriculture
94211 manufactured home assembler	85101 maple syrup maker
72310 manufactured house carpenter	80020 maple syrup producer
94211 manufactured housing production worker	85101 maple tapping worker
64101 manufacturer's agent - wholesale (non-technical)	21300 mapping engineer
41402 manufacturers' association analyst	72600 mapping pilot
40030 manufacturers' association manager	22214 mapping technician
64101 manufacturer's representative - wholesale (non-technical)	94140 maraschino cherry processor - food and beverage processing
62100 manufacturer's sales representative	72014 marble and terrazzo contractor-setter

72014 marble and terrazzo setter-contractor	72603 marine engineer officer - water transport
72014 marble and terrazzo setting contractor	72603 marine engineer officer
94103 marble carver - concrete, clay and stone forming	72603 marine engineer officer-cadet (except armed forces)
94103 marble cutter	21399 marine engineer
73101 marble layer	20010 marine engineering manager
73101 marble mason	74201 marine engineering mechanic
73101 marble mechanic	74201 marine engineering technician
75110 marble setter helper	22301 marine engineering technologist
73101 marble setter	72201 marine equipment electrician
72014 marble setters foreman/woman	22110 marine farming technologist
72014 marble setting foreman/woman	21102 marine geologist
73101 marble tilesetter	21102 marine geophysicist
94140 margarine blender	22101 marine geoscience technologist
94140 margarine clarifier - food and beverage processing	21110 marine hydrobiologist
94140 margarine processor	12201 marine insurance adjuster
14201 margin calculation clerk - financial sector	21110 marine mammal trainer
65101 marina attendant	21301 marine mechanical engineer
70012 marina manager	74201 marine oiler
70012 marina operator	70020 marine operations manager
65101 marina worker	70020 marine operations superintendent
12202 marine and aircraft underwriter - insurance	72301 marine pipefitter
22110 marine biological technician	72012 marine pipefitters foreman/woman
21110 marine biologist	85102 marine plant gatherer
22110 marine biology technician	72300 marine plumber
22110 marine biology technologist	73400 marine railway operator
72103 marine boilermaker	72423 marine repair technician
22231 marine cargo surveyor	72603 marine second engineer - water transport
12201 marine claims adjuster - insurance	72603 marine senior engineer - water transport
94212 marine craft plastic panelling assembler	72020 marine service foreman/woman - engine repair
22110 marine culture technologist	72423 marine service technician apprentice
22231 marine damage surveyor	72423 marine service technician
22212 marine drafting supervisor	72301 marine steamfitter
75119 marine electrician helper	72104 marine steel fitter
72201 marine electrician	70020 marine superintendent
72011 marine electricians foreman/woman	22231 marine surveyor
72400 marine engine mechanic apprentice	21399 marine systems engineer
72400 marine engine mechanic	72604 marine traffic controller
74201 marine engine oiler	72604 marine traffic regulator
94204 marine engine quality-control assembly inspector	70020 marine transportation operations manager
	12202 marine underwriter - insurance

72201	marine wireman/woman	00015	marketing vice-president - goods production, utilities, transportation and construction
55109	marionette handler	00014	marketing vice-president - grocery store chain
41301	marital counsellor	00013	marketing vice-president - health, education, social and community services and membership organizations
53122	maritime art painter	00014	marketing vice-president - trade, broadcasting and other services
65320	marker - laundry and dry cleaning	14112	markup person - typesetting
41201	marker - post-secondary teaching assistance	94210	marquetry worker - furniture manufacturing
95100	marker - primary metal processing	41301	marriage and family therapist
40011	market analysis director - government services	41301	marriage consultant
41402	market analyst - non-financial	41301	marriage counsellor
40011	market development director	41301	marriage therapist
10022	market development manager	94140	marshmallow maker
85101	market garden worker	54100	martial arts instructor
80020	market gardener	94140	marzipan maker
41402	market intelligence analyst	55109	mascot
41402	market research analyst	94140	mash dryer - food and beverage processing
10029	market research service manager	94140	mash operator - food and beverage processing
41402	market research specialist	94143	mashgiach - food and beverage processing
41402	market researcher	95109	masker
41402	marketing analysis specialist	22233	masonry inspector
41402	marketing analyst - non-financial	75110	masonry pointer and caulker
41402	marketing analyst	72320	masonry silo erector
41402	marketing analytics analyst	75110	mason's helper
11202	marketing consultant - advertising	22100	mass spectrometer technician
11202	marketing consultant	22100	mass spectrometer technologist
11202	marketing coordinator	22100	mass spectrometry technician
41402	marketing data analyst	21202	mass transit services analyst
10022	marketing director	60040	massage parlour manager
10022	marketing executive	32201	massage therapist (MT)
10022	marketing manager	65229	massager
11202	marketing project manager	65229	masseur/masseuse
41402	marketing project officer - market research	32201	masso kinesitherapist
41402	marketing research specialist	32201	massotherapist
41402	marketing researcher	72602	master - inland waters
11202	marketing specialist - advertising	72602	master - minor waters
11202	marketing specialist	72602	master - water transport
41210	marketing teacher - college level	62200	master chef
00015	marketing vice-president - airline	52112	master control room (MCR) equipment operator - broadcasting
00012	marketing vice-president - clerical staff services		
00012	marketing vice-president - financial, communications and other business services		

52112 master control room (MCR) technician - broadcasting	21322 materials engineer
22100 master dyer - textiles	21109 materials engineering scientist
53124 master glass blower	22302 materials handling technician
53124 master glassmaker	21109 materials scientist
80021 master grower - cannabis	22300 materials testing technician
72100 master machinist	22300 materials testing technologist
72602 master mariner	21100 mathematical biophysicist
52114 master of ceremonies (MC)	41401 mathematical economist
93101 master operator - chemical processing	20011 mathematical services manager
95105 master pattern cutter	21210 mathematical statistician
52113 master record cutter	21210 mathematician
64200 master tailor	41405 mathematics coordinator - education
94110 match head maker	20011 mathematics department director
94219 match inspector	41200 mathematics professor - university
94122 matchbook comb-cutting machine tender	20011 mathematics program manager
94122 matchbook folding-stapling machine tender	41210 mathematics teacher - college level
94219 matchbook inspector	41220 mathematics teacher - secondary school
94210 matcher - furniture finishing and refinishing	43201 matron - correctional service
72602 mate - water transport	92013 matting inspection foreman/woman - rubber manufacturing
10012 material and services purchasing manager	92013 matting inspection supervisor - rubber products manufacturing
14402 material checker	94210 mattress assembler - furniture manufacturing
12013 material clerks supervisor	94210 mattress maker
13201 material control coordinator	92022 mattress manufacturing foreman/woman
10019 material control manager	94210 mattress manufacturing inspector
13201 material coordinator	94131 mattress sewing machine operator
14402 material estimator	00010 mayor
75101 material handler - manufacturing and warehousing	42201 meals-on-wheels worker
75101 material handler	22231 measurement specialist - oil and gas
72400 material handling equipment mechanic	22231 measurement technician - oil and gas inspection
14401 material keeper	22312 measurement technician - oil and gas installation
12102 material management officer	75110 measurer
10012 material manager	22300 measures technician
94132 material mender	94130 measuring machine tender - hide and pelt processing
12102 material purchasing officer	94141 meat boner
21300 material testing civil engineer	62101 meat buyer
92023 material-handling equipment assembly foreman/woman	94140 meat canner
62100 material-handling equipment salesperson	62200 meat chef
84100 materialman/woman - underground mining	
12102 materials coordinator	

94140 meat chopper - food and beverage processing	94141 meat trimmer
94141 meat chopper - meat packing plant	95106 meat vacuum wrapper
94140 meat cook - food and beverage processing	95106 meat washer
64100 meat counter clerk	65102 meat wrapper - grocery store
94140 meat curer	95106 meat wrapper
94141 meat cutter - meat packing plant	62200 meat, poultry and fish chef
65202 meat cutter - retail or wholesale	95106 meat-packing plant labourer
65102 meat cutter helper - supermarket	95106 meat-rolling machine tender
92012 meat cutting plant foreman/woman	72410 mechanic - motor vehicle manufacturing
65102 meat department assistant - supermarket	72400 mechanic - utilities
60020 meat department manager - food store	75119 mechanic helper
60020 meat department manager - retail	94204 mechanical assembler group leader
62010 meat department supervisor	94204 mechanical assembler
94141 meat dresser - meat packing plant	94204 mechanical assemblers lead hand
95106 meat dryer	74201 mechanical assistant - water transport
94143 meat grader	74201 mechanical assistant, ship's engine room
94140 meat grinder - food and beverage processing	22212 mechanical building draftsman
22111 meat hygiene inspector	72022 mechanical composition foreman/woman - printing
22111 meat inspection supervisor	22212 mechanical design draftsman
22111 meat inspector	21301 mechanical design engineer
95106 meat loaf trimmer	22212 mechanical draftsman
94140 meat mincer - food and beverage processing	21301 mechanical engineer
94140 meat mincer - packaging	22301 mechanical engineering design technologist
94140 meat mixer	22301 mechanical engineering development technologist
95106 meat mould sealer	22301 mechanical engineering equipment designer
95106 meat mould stripper	21301 mechanical engineering lead
94140 meat moulder - food and beverage processing	20010 mechanical engineering manager
95106 meat packager - food and beverage processing	41200 mechanical engineering professor - university
95106 meat packager	21301 mechanical engineering project manager
95106 meat packer - food and beverage processing	22301 mechanical engineering technician
92012 meat packing supervisor	22301 mechanical engineering technologist
94140 meat pickler	22301 mechanical equipment engineering assistant
94141 meat portion cutter - meat packing plant	72020 mechanical equipment repair inspection foreman/woman
65202 meat portion cutter - retail or wholesale	72020 mechanical equipment repair inspectors foreman/woman
95106 meat press tender	22303 mechanical estimator - construction
94141 meat roll tier - food and beverage processing	72405 mechanical fitter
94140 meat salter	83110 mechanical harvester and forwarder operator
94141 meat sawyer - meat packing plant	83110 mechanical harvester operator - logging
94141 meat tenderizer - food and beverage processing	
94141 meat trimmer - meat packing plant	

72500 mechanical hoist operator	11202 media coordinator
21301 mechanical hydraulic engineer	12102 media estimator
94200 mechanical inspector - motor vehicle manufacturing	11202 media events coordinator
72020 mechanical inspectors foreman/woman	11202 media relations coordinator
95109 mechanical insulator tester	10022 media relations director
21301 mechanical maintenance engineer	10022 media relations manager
72020 mechanical maintenance foreman/woman - utilities	11202 media relations officer
72020 mechanical maintenance supervisor - manufacturing	12102 media time and space buyer
72020 mechanical maintenance supervisor	64101 media time sales representative
22301 mechanical marine engineering technician	12110 media transcriber
73209 mechanical meter repairer	12110 media transcriptionist
21301 mechanical power engineer	11200 mediator - labour relations
94105 mechanical press operator - metal products manufacturing	11200 mediator
95101 mechanical press operator helper - metal products manufacturing	41404 medical adjudicator - Canada Pension Plan
94204 mechanical pump assembler	13112 medical administrative assistant
94200 mechanical quality assurance inspector - motor vehicle manufacturing	33102 medical aide
70012 mechanical services superintendent	12111 medical archivist
74205 mechanical sweeper operator - public works	32102 medical assistant (paramedic)
72404 mechanical systems aircraft maintenance engineer (AME)	33102 medical attendant - patient transfer
74200 mechanical tamper operator - railway	31100 medical bacteriologist
22301 mechanical technical inspector	31100 medical biochemist - physician
22301 mechanical technologist	21101 medical biochemist
41210 mechanical technology teacher - college level	21100 medical biophysicist
94200 mechanical test technician - motor vehicle manufacturing	21101 medical chemist
83110 mechanical tree processor and loader operator	12201 medical claims assessor - insurance
83110 mechanical tree processor operator - logging	33109 medical clinic assistant
72410 mechanical upgrader - motor vehicle manufacturing	30010 medical clinic director
75119 mechanic-fitter helper	14101 medical clinic receptionist
72020 mechanics foreman/woman	33109 medical device reprocessing technician
75119 mechanic's helper - automotive	33109 medical device reprocessor
21100 mechanics physicist	12110 medical dictatypist
21110 mechanistic toxicologist	30010 medical director
21301 mechatronic engineer	31102 medical doctor
10022 media advertising manager	51110 medical editor
12102 media buyer	32123 medical electrophysiology technologist
	21100 medical engineering biophysicist
	62100 medical equipment and supplies salesperson
	41310 medical examiner
	31100 medical geneticist
	31100 medical genetics specialist
	52120 medical illustrator

32121 medical imaging technologist - nuclear medicine	31100 medical physiologist
32121 medical imaging technologist - radiodiagnosis	32200 medical Qi gong practitioner
32122 medical imaging technologist - ultrasound	32121 medical radiation technologist - Canadian Armed Forces
12100 medical information assistant	32121 medical radiation technologist
33109 medical instrument sterilizer	32121 medical radiation technologists supervisor
22310 medical instruments repairer	32121 medical radiographer
62100 medical instruments sales agent	14101 medical receptionist
31301 medical intensive care nurse	14100 medical records clerk
33101 medical laboratory aide	10019 medical records department manager
33101 medical laboratory assistant	41210 medical records management program teacher
32120 medical laboratory biochemistry technologist	10019 medical records manager
32120 medical laboratory charge technologist	12111 medical records supervisor
32120 medical laboratory cytotechnologist	12111 medical records technician
22310 medical laboratory equipment repairer	12111 medical records technicians supervisor
33101 medical laboratory helper	12111 medical records unit supervisor
32120 medical laboratory microbiology technologist	41200 medical sciences professor - university
33101 medical laboratory technical assistant	13112 medical secretary
33101 medical laboratory technician	41300 medical social worker
32120 medical laboratory technologist - anatomical pathology	41409 medical sociologist
32120 medical laboratory technologist - core laboratory	32122 medical sonographer
32120 medical laboratory technologist	32122 medical sonographers supervisor
32120 medical laboratory technologists supervisor	31100 medical specialist officer - Canadian Armed Forces
32120 medical laboratory tissue technologist	31100 medical specialist
51100 medical librarian	21210 medical statistician
33109 medical material handler	13112 medical stenographer
31100 medical microbiologist	14401 medical supply attendant
31102 medical missionary	14401 medical supply clerk
14101 medical office assistant	32101 medical technician - Canadian Armed Forces
14101 medical office secretary-receptionist	32102 medical technician
31102 medical officer - Canadian Armed Forces	32120 medical technologist - medical laboratory
31102 medical officer of health (MOH)	32120 medical technologist
31100 medical oncologist	32120 medical technologists supervisor
31100 medical oncology specialist	41210 medical technology teacher
33102 medical orderly	51114 medical terminologist
31100 medical parasitologist	12110 medical transcriptionist
21110 medical parasitology biologist	51114 medical translator
31100 medical pathologist	00013 medical vice-president - health services
53110 medical photographer	51112 medical writer
21100 medical physicist	21101 medicinal chemist

41200 medicine professor - university	42201 mental health worker
65229 medium	65229 mental telepathist
12103 meeting coordinator	94130 mercerizer - textile manufacturing
12103 meeting planner	94130 mercerizer machine operator - textile manufacturing
63211 mehndi tattoo artist	12011 merchandise clerks supervisor
95100 melt shop helper	64409 merchandise exchange clerk
95100 melt shop labourer	10012 merchandise purchasing director
94101 melter - foundry	10012 merchandise purchasing manager
93100 melter - primary metal processing	62101 merchandiser
95100 melter helper - primary metal and mineral products processing	94140 merchant miller - food and beverage processing
94140 melter tender - food and beverage processing	72602 merchant navy mate
92010 melting and roasting department supervisor	63102 merchant services specialist - financial
92010 melting and roasting foreman/woman - primary metal and mineral products processing	94110 mercury recoverer - chemical processing
92010 melting and roasting operations foreman/woman - primary metal and mineral products processing	65211 merry-go-round operator
00010 Member of Legislative Assembly (MLA)	72106 mesh-welding machine operator
00010 Member of Parliament (MP)	63200 mess cook
00010 Member of the House of Assembly (MHA)	65200 mess waiter/waitress
00010 Member of the National Assembly (MNA)	74102 message carrier
00010 Member of the Provincial Parliament (MPP)	74102 message deliverer
00013 membership organization general manager	70021 messenger service manager
64101 membership sales representative	64401 messenger service representative
40030 membership services manager	72025 messenger service supervisor
53123 memorial designer	74102 messenger
64100 memorial salesperson - retail	74102 messenger-clerk
53125 men's and women's wear patternmaker	72020 metal and woodworking machinery manufacturing foreman/woman
64100 men's clothing sales clerk	94100 metal annealing tender
64100 men's clothing salesperson - retail	53124 metal arts worker
64200 men's garment alterations tailor	94107 metal awning machine operator
63210 men's hairdresser	94106 metal band saw operator
40030 men's hostel manager	94107 metal blade sharpener operator
64100 men's wear sales clerk	94213 metal bluer
41301 mental health counsellor	95101 metal bluing cleaner - metal products manufacturing
31301 mental health nurse	72106 metal brazier and heater
42201 mental health proctor	95101 metal buffer - metal products manufacturing
41404 mental health programs consultant	92023 metal buffers foreman/woman
30010 mental health residential care program manager	92023 metal buffing foreman/woman
42201 mental health support worker	94210 metal cabinet assembler
	94107 metal cable machine operator
	94107 metal cable maker operator

94107 metal cable maker	94210 metal furniture inspector
94107 metal cable stretcher and tester	72102 metal furniture model maker
94210 metal casket assembler	72102 metal furniture patternmaker
94101 metal caster - foundry	94210 metal furniture repairer
92010 metal casters, moulders and coremakers foreman/woman	94100 metal hardener - primary metal processing
95101 metal casting finisher	94210 metal hardware installer - furniture manufacturing
92010 metal casting, moulding and coremaking foreman/woman	93100 metal heater - primary metal processing
94210 metal chair assembler	93100 metal heater operator
95101 metal cleaner - metal products manufacturing	92010 metal heat-treating foreman/woman - primary metal processing
95101 metal cleaner	95100 metal impregnator - primary metal processing
94213 metal coater operator	72106 metal inert gas (MIG) welder
94213 metal coater	73102 metal lather
94213 metal coating-equipment operator	94210 metal locker assembler
94105 metal cut-off saw operator	93100 metal melter
60020 metal dealer	94100 metal mixer - primary metal processing
32112 metal dental technician	94100 metal mixer operator - primary metal processing
94213 metal dipper	72010 metal mould and metal patternmakers foreman/woman
94219 metal door frame assembler	72010 metal mould and metal patternmakers supervisor
94213 metal electroplater	72101 metal mould finisher
94213 metal electroplating inspector	72101 metal mould maker
53124 metal engraver	72101 metal mouldmaker
94100 metal extrusion press operator - primary metal processing	94107 metal nut former
94105 metal fabricating machine operator	94107 metal nut maker
95101 metal fabrication worker	94105 metal parts inspector
72104 metal fabricator - structural metal and platework	72101 metal patternmaker apprentice
72104 metal fabricator (fitter)	72101 metal patternmaker
72010 metal fabricator foreman/woman	21100 metal physicist
72104 metal fabricator	95101 metal pickler operator helper
73200 metal fence erector	94107 metal pin maker
72411 metal finish and touch-up repairer - motor vehicle manufacturing	94107 metal pipe cutter machine operator
72411 metal finisher - motor vehicle manufacturing	94107 metal pipe cutter operator
72010 metal fitters foreman/woman	94107 metal pipe machine cutter
94107 metal floor lamp maker	94213 metal plater-polisher
75110 metal form setter - construction	94213 metal plating-equipment operator
94101 metal frame moulder - foundry	94100 metal pointer operator - primary metal processing
72310 metal framer - carpentry	95101 metal polisher helper
94210 metal furniture assembler	95101 metal polishing-plating labourer
92022 metal furniture assembly foreman/woman	

94100 metal pourer - metal processing	72106 metal straightener and heater
95100 metal pourer helper - primary metal processing	94104 metal strength tester - primary metal processing
95100 metal pourer helper	72105 metal structure erector
95100 metal powder lubricator finisher	95101 metal structure fitter helper
94105 metal power saw operator	94210 metal table assembler
72104 metal preparation lead hand - structural metal and platework	94105 metal table saw operator
94104 metal processing inspector	94107 metal tack maker
94213 metal product spray painter	72105 metal tank erecting ironworker
94219 metal products assembler	94104 metal tensile strength tester - primary metal processing
92023 metal products inspection and testing foreman/woman	75110 metal trim erector helper
94107 metal products manufacturing machine operator	95100 metal tube marker - primary metal processing
62100 metal products salesperson	72411 metal upgrader - motor vehicle manufacturing
95100 metal reclaimer helper - primary metal processing	72105 metal wall framing installer
94100 metal reclaimer	72105 metal wall framing ironworker
72411 metal repairer - motor vehicle manufacturing	72105 metal wall installation ironworker
93100 metal roaster - primary metal processing	72106 metal welder
92010 metal rolling foreman/woman	90010 metal works fabrication manager
75110 metal roofer helper - construction	94107 metal-bonding equipment operator
73110 metal roofer	94213 metal-dipping equipment operator
95100 metal salvager helper - primary metal processing	92010 metal-extruding and metal-drawing foreman/woman
94106 metal saw tooth grinder	95101 metal-fabricating shop helper
94105 metal sawing machine operator	94105 metal-forming machine set-up operator
75110 metal scaffold erector helper	94105 metal-forming machine tender
72105 metal scaffold erector	94213 metal-leaf gilder
94107 metal screened door and window maker	94213 metallizer
53122 metal sculptor	21109 metallographer
72010 metal shapers foreman/woman	22101 metallurgical control analyst
72010 metal shipwright foreman/woman	21322 metallurgical engineer
72104 metal shipwright	41200 metallurgical engineering professor - university
93100 metal smelter	22101 metallurgical engineering technician
92010 metal smelting, converting and refining foreman/woman	22101 metallurgical engineering technologist
72106 metal solderer	22101 metallurgical technologist
94105 metal spinner	21109 metallurgist
94107 metal sponge machine tender	41200 metallurgy professor - university
94107 metal sponge maker	72010 metal-machining inspection foreman/woman
94213 metal spray operator	51101 metals conservator
94213 metal sprayer	94219 metal-sheathed insulation former
	94105 metal-stamping press operator
	94107 metal-twisting machine tender

72010 metalwork forming, shaping and installing contractor	00010 metropolitan council chair
95101 metalworking machine helper	51122 mezzo-soprano
94105 metalworking machine operator	94201 mica capacitor assembler
92023 metalworking machine operators foreman/woman	94100 mica crusher tender
94105 metalworking machine setter	94100 mica plate tender
94105 metalworking machine set-up man/woman	94100 mica press tender
94105 metalworking machine set-up operator	92010 mica processing foreman/woman
72400 metalworking machinery mechanic	94202 mica products maker
94107 metalworking weaver - metal products manufacturing	94100 mica sheet laminator
22214 meteorological aide	94100 mica sheet salvager
22214 meteorological inspector	94100 mica splitter
22214 meteorological technician - Canadian Armed Forces	94100 mica trimmer
22214 meteorological technician	22110 microbiological technician
21103 meteorologist	21110 microbiologist
41200 meteorology professor - university	22110 microbiology quality control technologist
94219 meter assembler	22110 microbiology technician (except medical)
21310 meter engineer	22110 microbiology technologist (except medical)
72203 meter installer - electric power systems	94201 microcircuit assembler
72011 meter installers and repairers foreman/woman	40011 microeconomic policy development director - government services
14110 meter reader	21301 micro-electro-mechanical systems (MEMS) research engineer
14100 meter records clerk	94201 microelectronic circuit fabricator
72422 meter repair electrical mechanic	21310 microelectronics engineer
72020 meter repair shop foreman/woman	12112 microfilm camera operator
73209 meter repairer	12112 microfilm moulder
73209 meter servicer	12112 microfilm records searcher
22310 metering technologist	12112 microfilmer
11201 methods and cost analyst	21102 micropaleontologist
11201 methods and procedures analyst	21311 microprocessor designer and application engineer
10029 methods and procedures manager	10030 microwave facilities manager - telecommunications
22302 methods designer	22310 microwave maintenance technician
21321 methods engineer	21100 microwave physicist
40010 Métis development programs regional director - government services	72011 microwave system foreman/woman
22310 metrics technologist	21311 microwave systems engineer
21100 metrologist	21311 microwave transmission systems engineer
21310 metrology engineer	31303 midwife
22310 metrology technician	41409 military historian
22310 metrology technologist	40040 military police officer - commissioned

42100 military policeman/woman - except commissioned	92015 millinery foreman/woman - fabric, fur and leather products manufacturing
14400 milk and cream receiver - food and beverage processing	64200 millinery maker
75201 milk deliverer	94106 milling machine operator - metal machining
94140 milk dryer - food and beverage processing	94100 milling machine operator - mineral and metal processing
94143 milk grader	94106 milling machine setter
22111 milk inspector	94106 milling machine set-up operator
94140 milk pasteurizer - food and beverage processing	92010 milling plant foreman/woman - primary metal and mineral products processing
95106 milk powder grinder	92013 millroom foreman/woman - rubber products manufacturing
92012 milk processing foreman/woman	94112 millroom operator - rubber products manufacturing
92012 milk processing plant foreman/woman	92013 millroom supervisor - rubber products manufacturing
85100 milk production labourer	94103 millstone cutter - stone products
94143 milk receiver-tester	94211 millwork assembler - wood products manufacturing
95106 milk sampler	94211 millwork assembler
62100 milking machine salesperson	92024 millwork assemblers foreman/woman - wood products manufacturing
85100 milking machine tender	92024 millwork assembly foreman/woman - wood products manufacturing
82030 milking services contractor	92024 millwork assembly foreman/woman
75201 milkman/woman	92024 millwork assembly supervisor
94140 milk-processing equipment operator - food and beverage processing	72400 millwright apprentice
72310 mill carpenter	72020 millwright foreman/woman
95102 mill charger - chemical processing	75119 millwright helper
72201 mill electrician	72400 millwright industrial
95100 mill helper - primary metal and mineral products processing	72400 millwright
95100 mill labourer - mineral products processing	53121 mime
72400 mill maintenance mechanic	53121 mimic
90010 mill manager	94140 mincemeat maker
75119 mill mechanic helper	22101 mine analyst
94112 mill operator - rubber processing	84100 mine attendant
94112 mill operator - rubber products manufacturing	82020 mine captain
95101 mill roll grinder - metal products manufacturing	72310 mine carpenter
94110 mill roll tester - chemical processing	85110 mine check weigher
90010 mill superintendent	22233 mine construction inspector
94110 mill tender - chemical processing	84100 mine construction worker
94103 mill tender - clay products	21330 mine design engineer
94112 mill tender - rubber products manufacturing	21330 mine development engineer
95104 milled rubber cooler	22101 mine development technologist
94140 miller - food and beverage processing	
64200 milliner	

14404 mine dispatcher	41210 mineral technology teacher - college of applied arts and technology
22212 mine draftsman	21102 mineralogist
72201 mine electrician	22101 mineralogy technician
21120 mine examiner	22101 mineralogy technologist
82020 mine foreman/woman	21330 mines exploration engineer
21102 mine geologist	94140 mingler tender
64320 mine guide	65211 mini-golf attendant
85110 mine helper - underground mining	21330 mining engineer
85110 mine helper	20010 mining engineering manager
72400 mine hoist industrial mechanic	22101 mining engineering technician
72400 mine hoist machinery mechanic	22101 mining engineering technologist
72400 mine hoist repairer	72400 mining equipment master mechanic
85110 mine labourer	62100 mining equipment sales engineer
21330 mine layout engineer	62100 mining equipment sales representative
72401 mine locomotive repairman/woman	21102 mining geologist
80010 mine manager	41402 mining industry development consultant
72400 mine mechanic	83100 mining machine operator
84100 mine motorman/woman	72405 mining machinery fitter
21330 mine planning engineer	72400 mining machinery mechanic
21330 mine production engineer	80010 mining operations director
22101 mine production technician	80010 mining operations manager
21330 mine safety engineer	41210 mining rescue instructor
22232 mine safety inspector	20011 mining research director
80010 mine superintendent	73400 mining shovel operator (except underground)
82020 mine supervisor	22101 mining survey technician
22101 mine survey technician	22101 mining survey technologist
22101 mine survey technologist	22101 mining technician
84100 mine timberman/woman	22101 mining technologist
21330 mine ventilation engineer	41302 minister - religion
84100 miner helper - raise mining	41302 minister
85110 miner helper - underground mining	12100 ministerial assistant
83100 miner	94200 minivan assembler - motor vehicle manufacturing
21330 mineral dressing engineer	82030 mink farm supervisor
21330 mineral engineer	82030 mink ranch supervisor
10029 mineral land administration manager	95105 mink tail splitter - fur products manufacturing
10029 mineral land and contract manager	94100 mint precious metal refiner - primary metal processing
12102 mineral land contracts analyst	94210 mirror and picture frame assembler
94104 mineral sampler - mineral products processing	94210 mirror and picture frame maker
22101 mineral technician	94219 mirror assembler
22101 mineral technologist	

94219 mirror framer	73300 mobile concrete mixer driver
94102 mirror maker	72500 mobile crane apprentice operator
94102 mirror silverer	72500 mobile crane operator
92024 mirror silvering foreman/woman	21231 mobile development lead
73111 mirror wall installer	52114 mobile disc jockey
94102 mirror-silvering equipment operator	14404 mobile equipment dispatcher
22313 missile electronics inspector	75119 mobile equipment repairer helper
22313 missile electrotechnician - avionics	72401 mobile farm equipment mechanic
31102 missionary doctor	72401 mobile farm machinery repairer
42204 missionary	92023 mobile home assembly foreman/woman
94124 mitre saw tender - woodworking	92023 mobile home assembly supervisor
80020 mixed farmer	73200 mobile home equipment servicer
94110 mixer - chemical processing	73200 mobile home maintainer
94103 mixer - concrete, clay and stone products	73200 mobile home repairer
94140 mixer - tobacco processing	64100 mobile home salesperson - retail
95100 mixer helper - primary metal and mineral products processing	73200 mobile home servicer
94110 mixer operator - chemical processing	72401 mobile logging equipment mechanic
94103 mixer operator - concrete products	75119 mobile mechanic helper
94112 mixer operator - rubber processing	72401 mobile mining equipment mechanic
94112 mixer operator - rubber products manufacturing	72603 mobile platform chief engineer - offshore drilling
94110 mixer tender - chemical processing	52112 mobile radio broadcasting supervisor
94112 mixing and grinding machine tender - rubber products manufacturing	72205 mobile radio installer - telecommunications
92010 mixing and separating operations foreman/woman - primary metal and mineral products processing	72205 mobile radio technician - telecommunications
92013 mixing foreman/woman - rubber and plastic manufacturing	72205 mobile radiotelephone installer
94121 mixing operator - pulp and paper	73300 mobile support equipment operator - Canadian Armed Forces
92010 mixing plant foreman/woman - primary metal and mineral products processing	94201 mobile transceiver inspector - electronic equipment manufacturing
92013 mixing supervisor - rubber and plastic products manufacturing	83110 mobile whole tree chipper - logging
64301 mixologist	75101 Mobilift operator
21232 mobile applications developer	94132 moccasin sewer
52112 mobile broadcasting equipment installer	72999 model and mock-up maker - aeronautics
52112 mobile broadcasting equipment operator	72999 model and mock-up maker
75201 mobile canteen driver	72999 model and mould maker - concrete products
72024 mobile canteen service supervisor	72101 model maker - tool and die
75201 mobile caterer	72100 model maker machinist
73300 mobile cement mixer driver	72999 model maker
83110 mobile chipper operator - logging	53100 model maker-preparator
	55109 model
	94103 modelling clay mixer and extruder
	43109 modelling instructor

60040 modelling school manager	75110 monument erector
52114 moderator - broadcasting	94104 monument inspector - mineral products processing
41302 moderator - religion	94103 monument letterer - stone products
41210 modern languages teacher - college level	53122 monument sculptor
41220 modern languages teacher - secondary school	75110 monument setter
41210 modern languages tutor - language school	94103 monument stonecutter - stone products
53125 modifier and lay-out marker	94219 mop assembler
53125 modifier and marker	94219 mop maker
94140 module tender - tobacco processing	42100 morality officer - police
42204 mohel	33109 morgue attendant
94143 moisture content tester - dairy products	33109 morgue technician
94143 moisture content tester - tobacco processing	94103 mortar mixer
94140 molasses mixer - food and beverage processing	43204 mortarman/woman
94140 molasses wort processor	10021 mortgage and consumer credit manager
75110 mole operator helper - construction	13111 mortgage and real estate legal assistant
73400 mole operator	42200 mortgage and real estate paralegal
21110 molecular biologist	10020 mortgage broker manager
21100 molecular biophysicist	11109 mortgage broker
21110 molecular geneticist	14201 mortgage clerk
21110 molecular physiologist	63102 mortgage consultant
95100 molten metal mixer helper - primary metal processing	63102 mortgage loans consultant
94100 molten metal mixer operator	63102 mortgage loans officer
94104 molten metal sampler - primary metal processing	10021 mortgage manager
94100 molybdenum flotation operator	63102 mortgage officer
94100 molybdenum leaching plant operator	11109 mortgage underwriter
93100 molybdenum roaster operator	62201 mortician
65100 money counter	94124 mortiser operator - woodworking
11101 money market analyst	94124 mortising machine operator - woodworking
11103 money market trader	73101 mosaic tilesetter
14404 monitoring station operator	65310 motel cleaner
42204 monk	60031 motel manager
94151 monochrome plate film stripper	62022 motel managing supervisor
72500 monorail crane operator	42204 mother superior/religious superior
14112 Monotype casting machine operator	52120 motion graphic designer
14112 Monotype hot metal typesetter keyboard operator	52110 motion picture camera operator
14112 Monotype keyboard operator	51120 motion picture director
94103 monument carver - stone products	72100 motion picture equipment machinist
94103 monument engraver - stone products	53111 motion picture examiner
	52119 motion picture facilities supervisor
	94153 motion picture film developer

94153 motion picture film examiner - photographic processing	92020 motor vehicle assembly foreman/woman
94153 motion picture film printer	92020 motor vehicle assembly general supervisor
51121 motion picture musical director	90010 motor vehicle assembly plant manager
51120 motion picture producer	92020 motor vehicle assembly supervisor
51120 motion picture production director	92020 motor vehicle assembly zone supervisor
53111 motion picture projectionist	65329 motor vehicle attendant
94200 motor and chassis inspector - motor vehicle manufacturing	72411 motor vehicle body finisher
94203 motor and control tester	72411 motor vehicle body repairer - collision
94202 motor and generator assembler - electrical equipment manufacturing	72411 motor vehicle body repairer - metal and paint
94203 motor and generator assembler - industrial electrical equipment	72411 motor vehicle body repairer - refinishing
94203 motor and generator assembler and wirer	72411 motor vehicle body repairer apprentice
94203 motor and generator inspector	75119 motor vehicle body repairer helper
94213 motor and generator subassemblies painter	72411 motor vehicle body repairer
94203 motor and transformer tester	72020 motor vehicle body repairers foreman/woman
72423 motor boat mechanic	72411 motor vehicle body repair-painter
75210 motor boat operator	72411 motor vehicle body technician - truck
73301 motor coach driver	72411 motor vehicle body technician
72422 motor coil winder-repairer	14301 motor vehicle bureau clerk
94203 motor control assembler - industrial electrical equipment	12201 motor vehicle claims adjuster - insurance
92023 motor home assembly foreman/woman	94204 motor vehicle clutch assembly inspector
94200 motor installer - motor vehicle manufacturing	94106 motor vehicle cylinder grinder
75210 motor launch operator	22231 motor vehicle defects investigator
72410 motor mechanic - motor vehicle manufacturing	72410 motor vehicle diesel engine mechanic
72411 motor repair vehicle painter apprentice	14404 motor vehicle dispatcher
72410 motor repairer - motor vehicle manufacturing	72020 motor vehicle engine repair foreman/woman
72423 motor scooter repairer	72410 motor vehicle fuel conversion technician
75211 motor transport labourer	72410 motor vehicle fuel-systems and electric-systems mechanic
70020 motor transport manager	92020 motor vehicle inspection and testing foreman/woman - motor vehicle manufacturing
72024 motor transport route foreman/woman	22231 motor vehicle inspector
22231 motor transportation inspector	72101 motor vehicle jig builder
22231 motor transportation regulations officer	65329 motor vehicle jockey
64101 motor vehicle and equipment sales representative - wholesale (non-technical)	64100 motor vehicle leasing representative - retail
72411 motor vehicle apprentice painter	94202 motor vehicle lighting fixture assembler
94200 motor vehicle assembler - motor vehicle manufacturing	92020 motor vehicle manufacturing foreman/woman
94200 motor vehicle assembler	75119 motor vehicle mechanic helper
92020 motor vehicle assembly coordinator	72410 motor vehicle mechanic
	94200 motor vehicle mechanical equipment inspector - motor vehicle manufacturing
	72410 motor vehicle mechanical repairer

72020 motor vehicle mechanics and repairers foreman/woman	84100 motorman/woman - underground mining
72020 motor vehicle mechanics foreman/woman	82020 motormen/women and dinkeymen/women foreman/woman (except rail transport)
72020 motor vehicle mechanics supervisor	72100 mould and core machinist
72999 motor vehicle model maker	94101 mould caster - foundry
74200 motor vehicle operator - pole yard	95101 mould cleaner - foundry
94213 motor vehicle painter - motor vehicle manufacturing	95104 mould cleaner - rubber and plastic products manufacturing
72411 motor vehicle painter - motor vehicle repair	95104 mould cleaner - rubber products manufacturing
14401 motor vehicle parts clerk apprentice	21301 mould design engineer
14401 motor vehicle parts clerk	22301 mould designer
14401 motor vehicle partsperson	95101 mould dresser - foundry
13201 motor vehicle repair shop coordinator	94103 mould filler - clay products
72020 motor vehicle repair shop foreman/woman	95104 mould filler - rubber and plastic products manufacturing
60020 motor vehicle repair shop manager	94212 mould filler-stripper - plastic manufacturing
72020 motor vehicle repair shop supervisor	94212 mould laminator - plastic manufacturing
94213 motor vehicle rustproofers	94112 mould machine operator - rubber products manufacturing
64100 motor vehicle salesperson - retail	72101 mould maker - plastics processing
72410 motor vehicle technician	72101 mould maker apprentice
72410 motor vehicle transmission mechanic	95104 mould preparer - rubber and plastic products manufacturing
94203 motor winder - industrial electrical equipment	94101 mould setter - foundry
94219 motorboat assembler	95104 mould setter - rubber and plastic products manufacturing
94219 motorboat assembly inspector	72010 mould shop foreman/woman - machining
75210 motorboat captain	95100 mould stripper - concrete products manufacturing
75210 motorboat operator	94212 mould stripper - plastic manufacturing
94203 motor-coil and generator-coil builder	94212 mould waxer - plastic manufacturing
94203 motor-coil and generator-coil installer - industrial electrical equipment	95104 mould waxer - rubber and plastic products manufacturing
43109 motorcycle driving instructor	92013 moulded footwear inspection supervisor - rubber and plastic products manufacturing
72423 motorcycle mechanic apprentice	94212 moulded plastic finisher
72423 motorcycle mechanic	94212 moulded plastic inspector
72020 motorcycle mechanics foreman/woman	94212 moulded plastic inspector-tester
42100 motorcycle patrolman/woman - police	94212 moulded plastic products trimmer
72423 motorcycle repairer	94212 moulded products finisher - plastic products manufacturing
72423 motorcycle repairman/woman	94212 moulded products stripper - plastic products manufacturing
64100 motorcycle salesperson - retail	95104 moulded products stripper - rubber and plastic products manufacturing
84101 motorhand - offshore drilling	
84101 motorhand - oil and gas drilling	
74102 motorized mail courier	
84100 motorman/woman - mines	
75119 motorman/woman - offshore drilling rig	
84101 motorman/woman - oil and gas drilling	

92014 moulded pulp products foreman/woman	31204 movement analyst - medical
94112 moulded rubber boot maker	41301 movement therapist
92013 moulded rubber footwear foreman/woman	75211 mover helper
94112 moulded rubber products inspector-trimmer	53121 movie actor
95104 moulded rubber products trimmer	51113 movie critic
94110 moulder - chemical processing	51120 movie director
94112 moulder - rubber products manufacturing	51120 movie producer
94124 moulder - wood products manufacturing	62029 movie theatre attendants supervisor
94124 moulder - woodworking	65100 movie theatre cashier
95100 moulder helper - primary metal processing	60040 movie theatre manager
94111 moulder operator - plastic manufacturing	53111 movie theatre projectionist
94124 moulder operator - woodworking	65329 movie usher
94101 moulding and coremaking machine setter - foundry	70020 moving company manager
94124 moulding cutter - wood products manufacturing	73300 moving truck driver
92010 moulding foreman/woman - foundry	73300 moving van driver
92013 moulding foreman/woman - rubber and plastic manufacturing	72024 moving van drivers supervisor
95104 moulding machine offbearer - rubber products manufacturing	75211 moving van helper
94140 moulding machine operator - food and beverage processing	72406 moving walkway installer-repairer
94124 moulding machine operator - woodworking	83100 mucker - underground mining
73102 moulding plasterer	73400 mucker operator - construction
94112 moulding press tender - rubber products manufacturing	73400 mucking machine operator - construction
94112 moulding pressman/woman - rubber products manufacturing	83100 mucking machine operator - underground mining
94101 moulding sand mixer - foundry	83100 mucking machine operator
92013 moulding supervisor - rubber and plastic products manufacturing	21332 mud engineer - petroleum drilling
72101 mouldmaker - aircraft	21332 mud engineer
94103 mouldmaker - clay products	75110 mud jack operator
72100 mouldmaking machinist	22101 mud man/woman - petroleum drilling
94112 mouldman/woman - rubber products manufacturing	63202 muffin baker
94201 mount operator - electronic equipment manufacturing	63202 muffin maker
64322 mountain climbing guide	74203 muffler installer
64322 mountain guide	60020 muffler shop manager
64322 mountaineering guide	72400 mule fixer - textile manufacturing
42100 mounted police constable	72400 mule setter - textile manufacturing
42100 mounted policeman/woman	41403 multiculturalism project officer
94201 mounter - electronic equipment manufacturing	94219 multifocal lens assembler
	94106 multi-function metal-cutting tool operator
	51102 multimedia archivist
	51120 multimedia audio producer
	51111 multimedia author
	21233 multimedia consultant

50011 multimedia department manager	50012 municipal director of recreation
52120 multimedia design specialist	22212 municipal draftsman
52120 multimedia designer	75212 municipal elemental worker
21232 multimedia developer	21300 municipal engineer
41400 multimedia ergonomist	22300 municipal engineering assistant
52111 multimedia graphic design technician	75212 municipal general labourer
52111 multimedia graphics technician	75212 municipal labourer
52120 multimedia illustrator	43202 municipal law enforcement officer
51113 multimedia information trader	43202 municipal law enforcement officers supervisor
52120 multimedia instructional designer and scriptor	50012 municipal leisure director
51100 multimedia librarian	50012 municipal leisure manager
53110 multimedia photographer	74205 municipal maintenance equipment operator
53110 multimedia picture illustrator	50012 municipal manager of leisure
52120 multimedia products designer	50012 municipal manager of recreation
52120 multimedia products designer-ideaman/woman	14100 municipal office clerk
21232 multimedia programmer	21202 municipal park planner
51111 multimedia script writer	21202 municipal planner
52113 multimedia sound technician	50012 municipal recreation director
52113 multimedia sound-effects supervisor	50012 municipal recreation manager
51111 multimedia writer	41400 municipal recycling program coordinator
94132 multineedle sewing machine operator	74205 municipal servicer drain roto
94105 multi-operation forming machine tender	41101 municipal solicitor
94129 multiple drum sander operator	12104 municipal tax collector
94111 multiple extruder operator - plastic manufacturing	40011 municipal taxation manager
94105 multiple punch press operator - metal fabrication	94219 munitions assembler
94106 multiple-spindle drill press operator - metal machining	75101 munitions handler
94106 multiple-spindle screw machine operator	94219 munitions inspector
94106 multiple-spindle vertical boring mill set-up operator	94219 munitions loading inspector
94106 multiple-spindle vertical turret lathe set-up operator	94219 munitions manufacturing inspector
94111 multi-roll calender operator - plastic manufacturing	94219 munitions salvage inspector
94112 multiroll calender operator - rubber products manufacturing	94219 munitions worker
82021 multi-service operator - oil field services	53122 mural landscape artist
00011 municipal administrator	53122 mural painter
12203 municipal assessor	51101 museologist
00010 municipal council chairman/woman	53100 museology technician
50012 municipal director of leisure	50010 museum administrator
	50010 museum assistant administrator
	50010 museum assistant director
	53100 museum cataloguer
	50010 museum coordinator
	51101 museum curator

53123 museum designer	60040 music school manager
50010 museum director of conservation	41210 music teacher - conservatory of music
50010 museum director	41221 music teacher - elementary school
11202 museum education officer	51122 music teacher - musicians
11202 museum educator	51122 music teacher - private, conservatory or studio lessons
50010 museum executive director	41220 music teacher - secondary school
53123 museum exhibit designer	41301 music therapist
53100 museum exhibit officer	41301 music therapists' supervisor
53100 museum extension officer	41301 music therapy researcher
50010 museum general director	51121 music writer
53100 museum interpreter	51121 musical director
50010 museum manager	94219 musical instrument assembler
53100 museum objects cataloguer	53124 musical instrument maker - artisan
51101 museum objects conservator	92024 musical instrument manufacturing foreman/woman
53100 museum objects preparator	73209 musical instrument repairer
53100 museum preparator	73209 musical instrument tester
53100 museum registrar	94105 musical instrument tube bender
53100 museum technician - earth's history and paleontology	73209 musical instrument tuner
53100 museum technician	64100 musical instruments and supplies salesperson - retail
85101 mushroom farm worker	51122 musical interpreter
80020 mushroom grower	51122 musician
85101 mushroom picker	11202 musicians agent
80020 mushroom producer	73300 muskeg tractor operator
60040 music academy manager	85104 muskrat trapper
51121 music adapter	85102 mussel farm labourer
51121 music arranger	80022 mussel farmer
41405 music coordinator - education	80022 mussel grower
51121 music copyist	85102 mussel harvester
51113 music critic	11101 mutual fund analyst
51121 music director	11103 mutual fund broker
52113 music editor - recording studio	11103 mutual fund sales agent
00013 music guild president	11103 mutual fund sales representative
51100 music librarian - broadcasting	10020 mutual funds manager - financial brokerage
51100 music librarian	22110 mycological technician
14300 music library assistant	22110 mycological technologist
52113 music mixer	21110 mycologist
52113 music or sound mixer	32201 myotherapist
41200 music professor - university	65329 mystery shopper
52119 music program planner	
51113 music reviewer	

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63211	nail care technician	42201	Native outreach worker
95109	nail cutter - shoe manufacturing	13100	Native reserve administrator
94107	nail maker	41220	Native school community teacher - secondary school
94107	nail making machine set-up operator	40021	Native school principal
94107	nail making machine tender	41400	natural and applied sciences consultant
94219	nailer - footwear manufacturing	41400	natural and applied sciences policy advisor
94124	nailing machine operator - woodworking	41400	natural and applied sciences policy analyst
63211	nails and lashes applicator	41400	natural and applied sciences program officer
94106	name plate stamper	41400	natural and applied sciences researcher
53124	nameplate engraver	93101	natural gas compressor operator
44100	nanny	21332	natural gas engineer
22110	nanobiotechnology technician	92011	natural gas plant foreman/woman
21101	nanochemist	62100	natural gas sales representative
21100	nanotechnology physicist	53100	natural habitat interpreter
93101	naphthalene clarifier	51101	natural history museum curator
94130	napper - textile manufacturing	51101	natural history specimen conservator
72400	napper adjuster - textile manufacturing	41401	natural resources economist
72400	napper grinder - textile manufacturing	22113	natural resources officer
94130	napper operator - textile manufacturing	41400	natural resources planner
94130	napper tender - textile manufacturing	41400	natural resources policy analyst
94130	naps teaseller - textile manufacturing	40011	natural resources policy director - government services
41310	narcotics detective	22110	natural resources technician - biology
41310	narcotics squad investigator	22112	natural resources technician - forestry
53121	narrator	51101	natural sciences curator
94133	narrow fabric examiner	51101	natural sciences museum curator
60010	national accounts manager - sales	41200	natural sciences professor - university
60010	national sales manager	20011	natural sciences program manager
53201	national team coach	21110	naturalist
41403	Native affairs officer	53100	nature interpreter
53124	Native art carver	53100	nature site interpreter
13100	Native band administrator	41221	nature study teacher - elementary school
42201	Native centre coordinator	31209	naturopath - physician
40030	Native centre manager	31209	naturopathic doctor (ND)
42201	Native community worker	31209	naturopathic physician
53124	Native craftwork instructor	32209	naturopathy practitioner
41403	Native employment program officer	32209	naturotherapist
41403	Native issues lobbyist	41406	nautical activities coordinator
41407	Native land claims liaison officer	94201	nautical instrument maker - electronic equipment manufacturing
42201	Native outreach officer - social services	41406	nautical programs coordinator

43204 naval acoustics operator	31301 nephrology and renal transplantation nurse
21399 naval architect	31301 nephrology nurse
40042 naval cadet	31100 nerve specialist
43204 naval combat information operator	94212 net applicator - plastic products manufacturing
42102 naval electronics technician	73209 net mender
21399 naval engineer	73209 net repairer
94201 navigation aid inspector - electronic equipment manufacturing	94131 net weaver - textiles
21300 navigation and positioning engineer	94131 net-knitting machine operator - textiles
72602 navigation officer - water transport	94131 netting-making machine operator - textiles
72600 navigator - air transport	22220 network administrator
95106 neck skewerer - food and beverage processing	22220 network analyst
94219 necklace assembler	21311 network architect - computer systems
72400 needle bed repairer - textile manufacturing	21311 network capacity planner
72400 needle board repairer - textile manufacturing	10030 network conduct centre assistant manager
94131 needle loom operator	22220 network controller
94131 needle loom weaver	20012 network design manager
94153 negative cutter - film processing	21311 network designer - computer systems
94151 negative merger	21311 network engineer - communication hardware
94153 negative restorer - photographic processing	21311 network infrastructure engineer
94153 negative retoucher	10030 network installation manager - telecommunications
94153 negative spotter - film processing	10030 network operations manager - telecommunications
94151 negative spotter - printing	22220 network operator
94153 negative-contact-frame operator	51113 network reporter
21202 neighbourhood planner	22220 network security administrator
42201 neighbourhood worker - social services	21220 network security analyst
21110 nematologist	21220 network security engineer
94202 neon sign builder - electrical equipment manufacturing	10030 network services manager - telecommunications
73200 neon sign erector	21311 network specialist - computer systems
73200 neon sign installer	22220 network support analyst
94202 neon sign maker	21311 network support engineer
94102 neon sign pumper	22220 network support technician
73209 neon sign repairer	22220 network system administrator
94102 neon sign tube bender	21311 network systems engineer
94102 neon tube bender	21311 network test engineer
94102 neon tube pumper	10030 network traffic manager - telecommunications
31100 neonatologist	10030 networks manager - telecommunications
94111 neoprene sprayer operator - plastic manufacturing	32123 neuroelectrophysiology technologist
31100 nephrologist	42201 neuro-linguistic programming coach
31301 nephrology and kidney transplantation nurse	31101 neurological surgeon

31100 neurologist	51113 newspaper critic
31100 neuropathologist	75201 newspaper deliverer
33102 neuropsychiatric aide	75201 newspaper delivery driver
31100 neuropsychiatrist	62010 newspaper delivery persons supervisor
31200 neuropsychologist	14404 newspaper dispatcher
31301 neuroscience nurse	75201 newspaper distributor
31101 neurosurgeon	51110 newspaper editor
94130 neutralizer - textile manufacturing	51113 newspaper editorial writer
94110 neutralizer	52120 newspaper illustrator
72410 new car mechanic	50011 newspaper manager
63101 new home salesperson	50011 newspaper managing editor
52120 new media graphics designer	14112 newspaper page assembler
51111 new media writer	73401 newspaper press operator
94200 new passenger car inspector	73401 newspaper pressman/woman
94200 new passenger car preparer - motor vehicle manufacturing	51113 newspaper reporter
32102 newborn emergency medical care technician	62010 newspaper sales supervisor
32102 newborn medical care technician	62010 newspaper salesperson supervisor
51113 news analyst - broadcasting	65109 newspaper vendor - street sales
51113 news analyst	65109 newspaper vendor
51113 news anchor	51113 newspaper writer
52110 news camera operator	64100 newsstand clerk
51113 news commentator - broadcasting	95101 nib finisher - metal products manufacturing
51113 news commentator	94219 nibbling machine operator - jewellery manufacturing
51113 news correspondent	94105 nibbling machine operator - metal fabrication
50011 news department manager	94213 nickel plater
51110 news desk editor	64314 night auditor - hotel
51110 news editor - broadcasting	64314 night clerk - hotel
51110 news editor	62022 night clerk supervisor - hotel
75201 news item delivery person	64314 night clerk
53110 news photographer	62010 night crew leader - retail store
52114 news reader	64410 night guard
51113 news reporter	62022 night supervisor - hotel
51110 news service editor	64410 night watchman/woman
51113 news writer - international broadcasting	84100 nipper - underground mining
51113 newscast correspondent	93101 nitric acid oxidation plant operator
52114 newscaster	94110 nitrocellulose dryer tender
75201 newspaper carrier and vendor	94110 nitrocellulose finisher
75201 newspaper carrier	93101 nitrocellulose maker
14301 newspaper circulation clerk	94110 nitrocellulose screener and weigher
51113 newspaper correspondent	84101 nitrogen operator - oil field services

84101 nitrogen operator	64101 novelty products salesperson - wholesale
84101 nitrogen truck operator - oil field services	64101 novelty sales representative - wholesale
93101 nitroglycerine maker	42204 novice - religion
94110 nitroglycerine neutralizer	75110 nozzle worker - pile driving
93101 nitroglycerine nitrator operator	21101 nuclear chemist
93101 nitroglycerine separator operator	21301 nuclear design engineer
93101 nitroglycerine separator	21301 nuclear engineer
21300 noise abatement engineer	22301 nuclear engineering technician
22300 noise abatement technician	22301 nuclear engineering technologist
22300 noise reduction technician	93100 nuclear fuel processor
22230 non-destructive examination technician	22312 nuclear generating station and heavy water plant control technician
22230 non-destructive examiner	92100 nuclear generating station field operator
22230 non-destructive inspection technician	72400 nuclear generating station mechanical maintainer
22230 non-destructive inspection tester	92100 nuclear generating station operator
22230 non-destructive inspector	22100 nuclear magnetic resonance (NMR) chemical technician
22230 non-destructive test technician	21101 nuclear magnetic resonance (NMR) spectroscopist
22230 non-destructive tester	32121 nuclear magnetic resonance imaging (NMRI) technologist
22230 non-destructive testing maintenance (NDT) technician	32121 nuclear medicine chief technologist
22230 non-destructive testing trainee	32121 nuclear medicine clinical coordinator
00013 non-governmental organization (NGO) executive director	32121 nuclear medicine clinical instructor
40030 non-governmental organization (NGO) manager	31100 nuclear medicine physician
32123 non-registered electrocardiography technician	31100 nuclear medicine specialist
13100 non-technical project manager	32121 nuclear medicine supervisor
64101 non-technical sales specialist - wholesale	32121 nuclear medicine technical coordinator
95106 noodle paste mixer tender	32121 nuclear medicine technical director
45100 noon hour assistant	32121 nuclear medicine technician
45100 noon hour supervisor	32121 nuclear medicine technologist
41402 northern development analyst	32121 nuclear medicine technologists supervisor
41402 northern development officer	21301 nuclear operations engineer
31101 nose specialist	31100 nuclear physician
41101 notary (Quebec)	21100 nuclear physicist
42200 notary public (British Columbia)	72400 nuclear power station equipment mechanic
42200 notary public (outside Quebec)	72400 nuclear power station machinery mechanic
42200 notary public clerk	92100 nuclear reactor control room operator - electrical power systems
42200 notary public	92100 nuclear reactor operator
94124 notcher operator - woodworking	21100 nuclear reactor physicist
94124 notching saw operator - woodworking	92100 nuclear station control room operator
51111 novelist	
53123 novelties stylist	

22301 nuclear technologist	42202 nursery school helper
90011 nuclear waste manager	42202 nursery school teacher
22312 nucleonic controller repairer	82031 nursery supervisor
94201 nucleonics instrument assembler	22112 nursery technician - forestry
55109 nude dancer	82031 nursery worker crew chief
73202 nuisance control trapper	82031 nursery worker foreman/woman
94152 numbering machine operator - printing	82031 nursery workers supervisor
94106 numerical control (NC) drilling machine operator - metal machining	80021 nurseryman/woman
94106 numerical control (NC) machining tool operator	00013 nurse's association executive director
22302 numerical control (NC) programmer	31301 nursing adviser
94107 numerical control (NC) riveting machine operator - metal products manufacturing	33102 nursing assistant (non-registered)
94106 numerical control/computer numerical control (NC/CNC) machining tool operator	32101 nursing assistant (registered - Québec)
94106 numerically controlled (NC) machine operator - metal machining	33102 nursing attendant
94106 numerically controlled (NC) machine tool operator	31300 nursing care coordinator
72100 numerically controlled (NC) machinist	30010 nursing care manager - medical services
94106 numerically controlled (NC) tracer operator - metal machining	31301 nursing consultant
22302 numerically controlled machine tool programmer (except operators)	31300 nursing coordinator
22302 numerically controlled tool programmer	31301 nursing counsellor
65229 numerologist	41210 nursing educator (except college)
60020 numismatist	31301 nursing evaluator
42204 nun	33102 nursing home attendant
31300 nurse - team leader	65310 nursing home cleaner
33102 nurse aide	41404 nursing home guidelines development officer
31301 nurse consultant	21120 nursing home inspector
31301 nurse counsellor	60031 nursing home manager
32101 nurse educator - cannabis	41404 nursing home policy development officer
31302 nurse practitioner	41210 nursing instructor - college
31301 nurse researcher	31300 nursing officer - Canadian Armed Forces
31301 nurse technician	33102 nursing orderly
31301 nurse	41200 nursing professor - university
33102 nursery aide - hospital	10029 nursing registry manager
82031 nursery foreman/woman	12010 nursing registry supervisor
85103 nursery labourer	31301 nursing researcher
80021 nursery manager	30010 nursing services administrator
80021 nursery operator	33102 nursing services aide
42202 nursery school aide	30010 nursing services assistant administrator
	31300 nursing services coordinator
	30010 nursing services director - medical services
	30010 nursing services manager - medical services
	31300 nursing supervisor
	31301 nursing technician

30010 nursing unit administrator	22232 occupational health and safety inspector
31300 nursing unit coordinator	10011 occupational health and safety manager
31300 nursing unit supervisor	22232 occupational health and safety officer
00013 nursing vice-president - health, education, social and community services and membership organizations	22232 occupational health and safety supervisor
31300 nursing ward supervisor	22232 occupational health inspector
95101 nut and bolt assembler - metal products manufacturing	31301 occupational health nurse consultant
94107 nut and bolt machine tender	31301 occupational health nurse
95101 nut and bolt packer - metal products manufacturing	22232 occupational health officer
94107 nut disk cutter	31100 occupational health physician (OHP)
94140 nut mixer operator	30010 occupational health services director
95106 nut sorter - food and beverage processing	22232 occupational health supervisor
95106 nut-chopping machine feeder	22232 occupational hygiene inspector
31121 nutrition and dietetics researcher	41400 occupational hygiene officer
31121 nutrition consultant	22232 occupational hygiene technician
31121 nutrition researcher	22232 occupational hygienist technologist
31121 nutrition specialist	41400 occupational hygienist
21101 nutritional chemist	31301 occupational medicine nurse
31121 nutritionist	31100 occupational medicine specialist
94140 nut-roasting equipment operator	31100 occupational physician
	22232 occupational safety consultant
	22232 occupational safety coordinator
	22232 occupational safety inspector
	22232 occupational safety officer
	22232 occupational safety specialist
	41403 occupational supply analyst
	31203 occupational therapist (OT)
	31203 occupational therapist vocational evaluator
	33109 occupational therapy aide
	32109 occupational therapy assistant
	33109 occupational therapy helper
	31203 occupational therapy rehabilitation consultant
	32109 occupational therapy technician
	40010 occupational training director - government services
	10011 occupational training director - human resources
	64101 ocean and lake container transportation sales representative
	21300 ocean engineer
	13201 ocean freight coordinator
	70020 ocean freight manager
	13201 ocean freight technician

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94124 oar maker - woodworking	
94124 oar shaper - woodworking	
94140 oats miller	
85111 observer helper - gravity prospecting	
85111 observer helper - seismic prospecting	
31300 obstetrical nursing supervisor	
31101 obstetrician	
31101 obstetrician-gynecologist	
31301 obstetrics nurse	
33100 occlusion rim former - dentures	
11200 occupational analyst - human resources	
11201 occupational analyst - services to management firms	
22232 occupational health and safety (OHS) consultant	
22232 occupational health and safety coordinator	
10011 occupational health and safety director	

21102 oceanographer	72020 office machine repairers foreman/woman
21101 oceanographic chemist	10019 office manager - non-profit organization
20011 oceanographic research director	13100 office manager
41200 oceanography professor - university	74102 office messenger
32129 ocular prosthetist	31301 office nurse
32129 ocularist apprentice	40010 office of health promotion chief - government services
32129 ocularist technician	41407 Office of the Speaker of the House of Commons officer
32129 ocularist	41407 office of the Speaker officer
94110 odorization technician - chemical processing	14101 office reception clerk
90010 oenologist	14101 office receptionist
94140 offal cooker - food and beverage processing	13100 office services coordinator
95109 offbearer - printing	12010 office services supervisor
14100 office administration clerk	52121 office space planner
13110 office administrative assistant	12010 office supervisor
13100 office administrator	60020 office supplies store manager
14100 office assistant	40042 officer cadet
12104 office auditor - taxation	10011 official languages chief
13100 office automation administrator	41407 official languages commission officer
13100 office automation coordinator	13100 official languages coordinator
13100 office automation technician	41405 official languages education officer
65310 office building cleaner	10011 official languages manager
65312 office building concierge	41407 official languages promotion officer
65100 office cashier	41302 officiating clergyman/woman
94210 office chair assembler	94150 offline-printing machine operator
65310 office cleaner	73401 offset lithographic proof press operator - printing
14100 office clerk	72022 offset lithography foreman/woman - printing
12010 office clerks supervisor	73401 offset machine operator
13100 office coordinator	94151 offset plate preparer
10012 office equipment purchasing manager	94151 offset platemaker
12102 office equipment purchasing officer	72022 offset press foreman/woman - printing
64101 office equipment sales representative - wholesale (non-technical)	73401 offset press operator - printing
64100 office equipment salesperson - retail	73401 offset press operator
62100 office equipment salesperson - wholesale	72022 offset press operators foreman/woman - printing
22311 office equipment service technician	73401 offset pressman/woman - printing
73200 office furniture installer	73401 offset printer
64101 office furniture sales representative - wholesale	94151 offset printing plate preparer
94201 office machine assembler	72999 offshore diver
14100 office machine operator	83101 offshore driller - oil and gas
12010 office machine operators supervisor	
22311 office machine repairer	

21332 offshore drilling engineer	94140 oil clarifier tender - food and beverage processing
72602 offshore drilling rig first mate	93101 oil controller
72603 offshore drilling rig marine engineer officer	93101 oil dispatcher
21332 offshore drilling rig subsea equipment engineer	64101 oil distributor
82021 offshore drilling rig superintendent	72400 oil drill rig mechanic
84101 offshore drilling rig technician	72021 oil field construction foreman/woman
83120 offshore fishing vessel captain	72021 oil field construction supervisor
72602 offshore rig captain	82021 oil field consultant supervisor
72602 offshore rig commanding officer	82021 oil field consultant
84121 offshore trawler deckhand	82021 oil field contractor
82021 oil and gas contractor	85111 oil field labourer
21332 oil and gas drilling engineer	93101 oil field production operator
82021 oil and gas drilling foreman/woman	93101 oil field pumper
80010 oil and gas drilling superintendent	94219 oil filter assembler
80010 oil and gas fields production manager	72420 oil furnace installer
21332 oil and gas production engineer	93101 oil gauger
42200 oil and gas property paralegal	21102 oil geologist
42200 oil and gas rights law clerk	22101 oil geology technologist
13111 oil and gas rights legal assistant	13200 oil lease broker
42200 oil and gas rights paralegal	93101 oil movement controller
82021 oil and natural gas well servicing foreman/woman	93101 oil movement coordinator
72420 oil and solid fuel heating mechanic	53122 oil painter
94110 oil bleacher	93101 oil pipeline operator
93101 oil blender	72400 oil pump station mechanic
72420 oil burner apprentice	95109 oil reclaimer
72020 oil burner installation foreman/woman	93101 oil refiner
72420 oil burner installer and repairer	62100 oil refinery equipment sales representative
75110 oil burner installer helper	93101 oil refinery process operator
72420 oil burner installer	72400 oil tool maintenance mechanic
75119 oil burner maintainer helper	72400 oil tool repairer
72420 oil burner maintainer	73300 oil transport driver
72420 oil burner mechanic apprentice	84101 oil well acidizer
75119 oil burner mechanic helper	84101 oil well cementer - oil field services
72420 oil burner mechanic	85111 oil well cementer helper
72020 oil burner mechanics foreman/woman	80010 oil well drilling manager
72420 oil burner repairer	21301 oil well equipment design engineer
72420 oil burner servicer	21332 oil well logging engineer
75119 oil burner technician helper	83101 oil well perforator
72420 oil burner technician	14404 oil well service dispatcher
74203 oil changer - motor vehicle service	82021 oil well services field supervisor

62100 oil well services sales engineer	32101 operating room technician - nursing
80010 oil well servicing manager	32101 operating room technician
72400 oil-drilling rig maintainer	21230 operating systems programmer
72400 oil-drilling rig mechanic	92014 operating team supervisor - pulp and paper
74203 oiler - automotive service	93101 operating technician - chemical processing
85101 oilseed crop worker	21103 operational meteorologist
13100 ombudsman officer	13100 operational officer - administration
00011 ombudsperson - government services	10019 operational planning director
14300 on call library assistant	10030 operations and transmission services manager - telecommunications
31301 on-call nurse	10019 operations chief
31100 oncologist	10019 operations director - administrative services
31301 oncology nurse	21111 operations forester
32121 oncology technologist - radiation therapy	11201 operations management senior consultant
32121 oncology technologist	10019 operations manager - administrative services
51113 on-line chronicler	10021 operations manager - banking, credit and investment
51113 on-line columnist	50011 operations manager - broadcasting
41405 online course coordinator - college	90010 operations manager - manufacturing
41405 online course coordinator - secondary school	90010 operations manager - public utilities
41405 online course coordinator - university	50011 operations manager - publishing
10022 online marketing manager	10030 operations manager - telecommunications
51112 on-line reference developer	00014 operations manager - trade, broadcasting and other services
82020 open pit mine supervisor	13100 operations officer - administration
94130 open-end spinner - textile manufacturing	21210 operations research analyst
72400 open-end technician - textile manufacturing	22302 operations research technologist
72400 open-end technician	21210 operations researcher
94130 opener tender - textile manufacturing	12010 operations supervisor
93100 open-flame furnace operator - primary metal processing	93101 operations technician - chemical processing
94130 opening and blending operator - textile manufacturing	00015 operations vice-president - electric power company
95104 opening machine feeder - rubber products manufacturing	00012 operations vice-president - financial, communications and other business services
73402 open-pit blaster	00015 operations vice-president - goods production, utilities, transportation and construction
73402 open-pit driller	00013 operations vice-president - health, education, social and community services and membership organizations
50011 opera company director	00014 operations vice-president - radio broadcasting services
51122 opera singer	00012 operations vice-president - satellite communication services
13100 operating officer - administration	
31301 operating room (OR) nurse	
33102 operating room aide	
31300 operating room nursing supervisor	
32101 operating room technician - Canadian Armed Forces	

00014 operations vice-president - trade, broadcasting and other services	94219 optical element coater - non-prescription
94205 operator - electrical equipment manufacturing	32100 optical frame fitter
14101 operator - telephone system	94219 optical glass etcher (non-prescription)
33109 ophthalmic assistant	33109 optical goods inspector
32100 ophthalmic device dispenser	94219 optical instrument assembler
32100 ophthalmic dispenser	92024 optical instrument assembly foreman/woman
33109 ophthalmic goods antireflection (AR) coating technician	94219 optical instrument calibrator
33109 ophthalmic goods bench worker	94219 optical instrument driller - non-prescription
33109 ophthalmic goods lens coating technician	94219 optical instrument maker
33109 ophthalmic goods lens cutter	92024 optical instrument manufacturing foreman/woman
33109 ophthalmic goods lens tinter	33109 optical lab mechanic - retail
33109 ophthalmic lab technician - retail	33109 optical laboratory assistant
33109 ophthalmic laboratory technician - retail	33109 optical laboratory technician - retail
33109 ophthalmic lens bench worker	33109 optical laboratory technician
33109 ophthalmic lens cutter	33109 optical lens grinder and polisher
33109 ophthalmic lens edge grinder	33109 optical lens inspector
33109 ophthalmic lens grinder and polisher	33109 optical mechanic
33109 ophthalmic lens grinder	94219 optical mirror coater operator
33109 ophthalmic lens grinder-polisher setter	21101 optical spectroscopist
33109 ophthalmic lens inspector	21311 optical systems engineer - telecommunications
33109 ophthalmic lens marker	33109 optical technician
33109 ophthalmic medical assistant	32100 optician
32109 ophthalmic medical technician	72022 OptiCopy and stripping foreman/woman - printing
32109 ophthalmic medical technologist	94151 opticon keypunch operator - printing
32109 ophthalmic technician (except retail)	94151 opticon machine operator - printing
32109 ophthalmic technician	94151 opticon offline programmer - printing
32109 ophthalmic technologist	94151 opticon program tape preparer - printing
33109 ophthalmologist assistant	21100 optics physicist
31101 ophthalmologist	22310 optics technologist
21210 opinion polling statistician	11103 options trader
00010 opposition leader	33109 optometric assistant
33109 optical and ophthalmic goods lens picker	32100 optometric dispenser
21311 optical communications engineer	33109 optometric technician
21311 optical communications hardware engineer	33109 optometrist assistant
32100 optical device dispenser	31111 optometrist
32100 optical dispensing manager	31110 oral and dental surgeon
22212 optical draftsman	31110 oral and maxillofacial surgeon
52119 optical effects coordinator	51114 oral interpreter
95109 optical element cleaner	31110 oral medicine specialist

31110 oral pathologist	51122 organ teacher - private, conservatory or studio lessons
31110 oral pathology and maxillofacial surgery specialist	73209 organ tuner
31110 oral radiologist	21101 organic chemist
31110 oral surgeon	85101 organic farm worker - harvesting
00010 orator - government	85100 organic farm worker - livestock
82030 orchard foreman/woman	80020 organic grower
85101 orchard worker	21101 organic mass spectrometrist
51121 orchestra artistic director	51122 organist
51121 orchestral conductor	11201 organization and methods officer
51121 orchestrator	11201 organization and methods researcher
51121 orchestrator-arranger	13100 organization and productivity project manager
64409 order clerk - customer services	13100 organization and productivity project officer
64409 order desk agent	10019 organization rules analysis manager
65102 order picker	11201 organizational analysis consultant
14100 order transcriber	11201 organizational analyst
33102 orderly	10029 organizational methods analysis director - business services
44200 ordinary seaman - Royal Canadian Navy	10029 organizational methods analysis director
74201 ordinary seaman/woman (except armed forces)	10029 organizational methods analysis manager
12102 ore buyer	10029 organizational planning and development director
95100 ore crushing helper	10019 organizational rules analysis manager
94100 ore crushing worker	10029 organizational services head
94100 ore dryer operator	21101 organometallic chemist
94100 ore grinding worker	32200 Oriental medical practitioner
84100 ore handling operator - underground mining	73209 Oriental rug repairer
92010 ore milling foreman/woman	42203 orientation and mobility instructor for persons with a visual impairment
92010 ore milling supervisor	42203 orientation and mobility instructor of persons who are blind
94100 ore milling worker	42203 orientation and mobility instructor
95100 ore processing labourer	42203 orientation and mobility teacher for persons who are blind
95100 ore processing pipe maintenance worker	42203 orientation and mobility teacher of persons with a visual impairment
93100 ore roaster	94219 ornament setter
94104 ore sample tester - mineral products processing	94101 ornamental caster - foundry
94104 ore sampler - mineral products processing	94219 ornamental design caster
94100 ore screen tender	94102 ornamental glass production worker
94100 ore screener	75110 ornamental iron erector helper
94100 ore separator tender - primary metal and mineral products processing	72105 ornamental ironworker
22101 ore technologist	94105 ornamental metal worker - metal fabrication
84100 orepass tender - underground mining	
72400 ore-processing equipment mechanic	
75119 ore-processing equipment repairer helper	

75110 ornamental metal worker helper	32209 osteopathic manual therapist
73102 ornamental plasterer	31209 osteopathic physician
95109 ornamental stone setter - jewellery manufacturing	31101 otolaryngologist
72105 ornamental-metal worker	31101 otologist
94210 ornamenter - furniture finishing and refinishing	31101 otorhinolaryngologist
22110 ornithological technician	31101 otorhinolaryngology specialist
22110 ornithological technologist	83121 otter trawl fisherman/woman
21110 ornithologist	94204 outboard motor assembler - mechanical assembly
53100 ornithology centre interpreter	92023 outboard motor assembly foreman/woman
51101 ornithology curator	94204 outboard motor inspector and tester
51101 ornithology museum curator	94219 outboard motor installer
33100 orthodontic band maker	94219 outboard motor installer-fitter
32112 orthodontic dental technician	72423 outboard motor mechanic
32111 orthodontic hygienist	94204 outboard motor prototype tester
32112 orthodontic prosthesis maker	64409 outbound customer service representative - contact centre
32112 orthodontic technician	64322 outdoor guide
31110 orthodontist	41220 outdoor physical education teacher - secondary school
32129 orthopedic appliance assembler	72429 outdoor power equipment technician
33109 orthopedic assistant	64322 outfitter
32129 orthopedic mechanic	64322 outfitting guide
33109 orthopedic physician assistant	31301 out-patient clinic nurse
63220 orthopedic shoe repairman/woman	41321 outplacement consultant
63220 orthopedic shoemaker	41321 outplacement counsellor
64100 orthopedic shoes salesperson - retail	31301 outpost nurse
33109 orthopedic supervisor	14112 output compositor - typesetting
31101 orthopedic surgeon	14112 output operator - typesetting
33109 orthopedic technician	31301 outreach nurse
33109 orthopedic technologist	72400 oven equipment repairer
31101 orthopedics specialist	92011 oven foreman/woman - chemical processing
33109 orthopedist aide	95102 oven loader - chemical processing
31101 orthopedist	94213 oven tender - painting and coating
94110 orthophosphate wet mix operator	94132 overcaster - garment manufacturing
31303 orthoptist	94132 overcasting machine operator
32201 orthothesapist	94132 overedging machine operator
32129 orthotic technician	72500 overhead crane operator
32129 orthotist	94124 overhead dado operator - woodworking
32129 orthotist-prosthetist	73200 overhead door installer
21110 osteologist	21310 overhead electrical distribution engineer
31209 osteopath - physician	94132 overlock sewing machine operator
32209 osteopathic manual practitioner	

94132 overseamer - garment manufacturing	94219 packaging tester
72106 oxyacetylene torch welder	95109 packer - manufacturing
72106 oxyacetylene welder	75101 packer - material handling
92010 oxygen furnace foreman/woman - primary metal and mineral products processing	94140 packer operator - tobacco products
93100 oxygen furnace operator - primary metal processing	65102 packer
93101 oxygen recovery plant operator	94121 packer-wrapper attendant - papermaking
32103 oxygen therapy technician	94122 packing carton assembler
72106 oxyhydrogen welder	94140 packing machine set-up operator
94142 oyster canner - fish processing	94124 packing trunk panel finisher - woodworking
22110 oyster culture technician	94131 pad mangle operator - textiles
80022 oyster farmer	94212 padded dashboard maker - plastic products manufacturing
80022 oyster grower	94112 padded products repairer
85102 oyster harvester	94130 padder tender - textile manufacturing
94142 oyster packer - fish processing	95109 padding cutter - furniture assembly
85102 oyster picker	95109 padding labourer
85102 oyster picker-shucker	94131 padding machine operator - textiles
94142 oyster shucker - fish processing	94130 padding machine tender - textile manufacturing
94142 oyster washer tender - fish processing	94124 paddle maker - woodworking
	53202 paddock blacksmith - racetrack
	53202 paddock horseshoer - racetrack
	53202 paddock judge - racetrack
	53202 paddock plater - racetrack
	94130 pad-extractor tender - textile manufacturing
	14112 page assembler
	14112 page compositor
	52120 page designer
	64321 pai gow croupier
	64321 pai gow domino croupier
	64321 pai gow poker croupier
	95109 pail handle inserter
	94213 paint and mix production and control operator
	94213 paint and varnish dipper operator
	94213 paint baking oven tender
	94219 paint brush final assembler
	94213 paint control operator
	92023 paint department foreman/woman - aircraft manufacturing
	92022 paint department foreman/woman - furniture and fixtures manufacturing
	92023 paint department foreman/woman - heavy equipment manufacturing

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94201 pacemaker assembler - electronic equipment manufacturing
52120 package designer
74100 package handler
75101 package lift operator
60010 package tour sales manager
12202 package underwriter - insurance
65320 packager - laundry and dry cleaning
95109 packager - manufacturing
95109 packaging company labourer
95109 packaging line worker
94140 packaging machine adjuster
72400 packaging machine mechanic
94110 packaging machine operator - chemical processing
94140 packaging machine operator - food processing
90010 packaging manufacturing plant manager
92012 packaging supervisor - food and beverage processing
94219 packaging tester and inspector

92023 paint department foreman/woman - heavy truck, bus and trailer manufacturing	22100 paint technician
92023 paint department foreman/woman - machinery manufacturing	94219 paintbrush-head maker
92023 paint department foreman/woman - metal products manufacturing	72411 painter - motor vehicle repair
92020 paint department foreman/woman - motor vehicle manufacturing	53122 painter - visual arts
92013 paint department foreman/woman - plastic products	73112 painter and decorator apprentice
92023 paint department foreman/woman - railway rolling stock manufacturing	75110 painter and decorator helper
92013 paint department foreman/woman - rubber products	73112 painter and decorator
92023 paint department foreman/woman - shipbuilding	73112 painter and paperhanger
92023 paint department foreman/woman - transport equipment manufacturing (except motor vehicles)	72014 painter foreman/woman - construction
92013 paint department supervisor - plastic products manufacturing	75110 painter helper - construction
92013 paint department supervisor - rubber products manufacturing	73112 painter
94200 paint department technician - motor vehicle manufacturing	73112 painter-decorator
94213 paint dipper - flow coating	94210 painter-finisher - furniture finishing
94213 paint machine operator	72014 painters and decorators foreman/woman
94110 paint maker	72014 painters and decorators supervisor
92011 paint making foreman/woman	92023 painters foreman/woman - metal products manufacturing
94110 paint mixer - chemical processing	72014 painting and wallpapering contractor
95102 paint plant labourer	72014 painting contractor
95102 paint pourer	94213 painting machine attendant
92011 paint processing foreman/woman	94213 painting machine operator
94213 paint production operator	94213 painting machine tender
94219 paint roller cover trimmer	72014 painting supervisor - construction
95109 paint roller winder	53122 painting teacher
94213 paint room attendant	51101 paintings conservator
64100 paint salesperson - retail	53100 paintings restoration technician
92020 paint shop foreman/woman - motor vehicle manufacturing	94213 paint-sprayer operator
92020 paint shop supervisor - motor vehicle manufacturing	21102 paleobotanist
94213 paint spray inspector	21102 paleoecologist
60020 paint store manager	21103 paleometeorologist
95109 paint stripper	21102 paleontologist
94213 paint systems attendant	22101 paleontology technician
	65329 pallbearer
	75101 pallet lift operator
	75101 pallet loader operator
	75101 pallet truck operator
	75101 palletizer operator
	31301 palliative care nurse
	65229 palm reader
	21102 palynologist
	22101 palynology technician

92012 pan house foreman/woman - food and beverage processing	92014 paper foreman/woman - pulp and paper
94100 pan tender	95109 paper goods bander
93100 panel board operator - primary metal and mineral products processing	94121 paper grader
94123 panel inspector - wood processing	64101 paper industry sales consultant
94124 panel jointer machine tender - woodworking	92014 paper inspectors foreman/woman - pulp and paper
93101 panel operator - chemical processing	94121 paper jogger operation - pulp and paper
93102 panel operator - pulp and paper	75110 paper latcher - construction
94124 panel raiser operator - woodworking	94121 paper machine back tender
94124 panel saw operator - woodworking	93102 paper machine control operator
94203 panelboard assembler - industrial electrical equipment	92014 paper machine foreman/woman - pulp and paper
93102 panelboard operator - pulp and paper	92014 paper machine foreman/woman
94129 panel-groover operator - wood processing	94121 paper machine hand
94129 panel-sanding machine operator - wood processing	94121 paper machine operator
53124 panflute maker	94121 paper machine second hand
42204 panthee	94121 paper machine winder
94105 pantograph burner - metal fabrication	93102 paper maker - control operation
53124 pantograph engraver - arts and crafts	92014 paper mill foreman/woman
94105 pantograph flame cutter - metal fabrication	90010 paper mill manager
94106 pantograph milling machine set-up operator	92014 paper mill supervisor
94151 pantograph setter	92014 paper mill workers foreman/woman
94151 pantographer - printing	92014 paper product fabricating and assembling foreman/woman
94140 pantry worker - food and beverage processing	94122 paper products inspector
94122 paper bag machine operator	92014 paper products makers foreman/woman - paper converting
94122 paper bag machine tender	94121 paper pulp tester
94122 paper bag maker	94121 paper roll finisher - pulp and paper
94122 paper box machine operator	94121 paper roll wrapper - pulp and paper
94122 paper box machine tender	52120 paper securities designer
94122 paper box maker - paper converting	95109 paper sheet counter - printing
75201 paper boy/paper girl	94122 paper slitter operator
92014 paper coating supervisor - pulp and paper	95103 paper sorter and counter
95109 paper cone dipper and dryer	95103 paper tube production helper
94122 paper cone former - paper converting	94122 paper twister tender - paper converting
94122 paper cone winder - paper converting	75101 paper wrapper - material handling
51101 paper conservator	94121 paper-coating machine operator
95103 paper converting labourer	94122 paper-converting machine operator
92014 paper converting supervisor	94121 paper-finishing machine operator
94122 paper cup machine tender - paper converting	75110 paperhanger helper - construction
94122 paper cutter - paper converting	73112 paperhanger

72014 paperhangers foreman/woman	82031 park section head - arboriculture
72014 paperhanging contractor	40011 park superintendent - government services
72014 paperhanging foreman/woman	65211 park supervisor
92014 papermaking and finishing foreman/woman	43202 parking control officer
94121 papermaking and finishing machine operator	13100 parking coordinator
94151 paper-plate maker	60020 parking garage operator
94122 paper-punch press tender - paper converting	65329 parking lot attendant
94122 papier-mâché moulder	65100 parking lot cashier
95109 parachute folder	60020 parking lot operator
95109 parachute harness rigger	62029 parking lot supervisor
94133 parachute inspector - fabric products manufacturing	75212 parking meter collector
95109 parachute preparer	73209 parking meter repairer
94219 parachute stringer	73209 parking meter servicer
94110 paradichlorobenzene equipment tender	65329 parking valet
42200 paralegal	40011 parks administration director
32102 paramedic emergency medical technician	21111 parks and recreation forester
32102 paramedic worker	40011 parks service director
32102 paramedic	12100 parliamentary assistant
22310 paramedical equipment repairer	12100 parliamentary committee clerk
43100 paraprofessional educator	40019 parliamentary services director
21110 parasitologist	00011 parole board chairman/woman
21110 parasitology biologist	41407 parole board member
75201 parcel delivery driver	41311 parole officer
64401 parcel post clerk	41311 parole supervisor
70021 parcel processing plant manager	73113 parquet floor layer
74100 parcel sorter	21100 particle accelerator physicist
44100 parent's helper	21100 particle physicist
41302 parish priest	92014 particleboard foreman/woman
65211 park attendant	94123 particleboard grader - wood processing
82031 park caretaker	94129 particleboard line operator
53100 park interpreter	92014 particleboard making foreman/woman
82031 park labourers supervisor	94213 particleboard spraying machine tender
82031 park maintenance head	94129 particleboard-forming machine operator
85121 park maintenance labourer	94129 particleboard-sizing saw tender
82031 park maintenance supervisor	94122 partition assembly machine operator - paper converting
85121 park maintenance worker	94122 partition slotter machine tender - paper converting
21110 park naturalist	94201 parts and assemblies typewriter inspector
21202 park planner	14401 parts clerk
22113 park ranger	12013 parts clerks supervisor
65211 park receptionist	

14401 parts counter clerk - retail	62200 pastry chef
14401 parts counter clerk	95106 pastry cook helper
75201 parts delivery driver	63200 pastry cook
14401 parts lister	63202 pastry decorator - retail
60020 parts manager - retail	63202 pastry decorator
12013 parts service supervisor	63202 pastry maker
12013 parts shipping manager	64100 pastry sales clerk
14401 parts sorter	95106 pastry wrapper
14401 parts supplier	84120 pasture rider
14401 parts technician	82030 pasture-managing supervisor
94201 parts tester - electronic equipment manufacturing	65320 patcher - laundry and dry cleaning
14401 partsperson	94129 patcher operator - wood processing
64313 passenger agent - railway	65320 patching machine operator - laundry and dry cleaning
64313 passenger agent (except airline)	41400 patent agent
12102 passenger and freight rates analyst	41101 patent counsel
64312 passenger sales agent - airline	41101 patent lawyer
64312 passenger sales representative - airline	41400 patent searcher
65210 passenger service attendant - railway	41101 patent solicitor
62022 passenger service coordinator - railway	31100 pathologist - medical
64311 passenger service director - water transportation	31100 pathologist-hematologist
64312 passenger service representative - airline	31303 pathologists' assistant
72602 passenger ship captain	31303 pathology assistant
73311 passenger train brakeman/woman	33102 patient care aide
73311 passenger train conductor	33102 patient care assistant
73310 passenger train engineer	33102 patient care associate
73310 passenger train locomotive engineer	31300 patient care coordinator - nursing
72023 passenger train road foreman/woman	33102 patient service aide
14301 passport clerk	33102 patient service assistant
14301 passport issuer	33102 patient service associate
12012 passport office supervisor	33102 patient service attendant
62200 pasta chef	33102 patient service worker
94140 pasta maker - food and beverage processing	14200 patient-billing clerk
52111 paste-up artist	10019 patient-registration manager
94140 pasteurizer operator - food and beverage processing	73200 patio builder
94140 pasteurizer operator	53202 patrol judge - racetrack
94205 pasting machine operator - electrical equipment manufacturing	42100 patrol officer - police
41302 pastor	64410 patrol officer - security
42204 pastoral animator	64410 patrolman/woman - security
	94131 pattern card preparer - textiles
	95105 pattern cutter

53125 pattern designer and patternmaker - textile, leather and fur products	13102 pay clerk
21301 pattern engineer	10011 pay services director - human resources
94101 pattern gater	13102 pay verifier
53125 pattern grader	73400 payload operator
53125 pattern marker - fabric products	12011 paymaster
53125 pattern marker	14111 payment entry clerk
53125 pattern modifier - textile, leather and fur products	14111 payment input clerk
53125 pattern modifier	12011 payment processing unit supervisor
94101 pattern moulder - foundry	12104 payment service officer - government services
94131 pattern puncher - textiles	10011 pay-processing division director - government services
72311 pattern repairman/woman - foundry	13102 payroll administrator
72010 pattern shop foreman/woman - metal machining	12011 payroll clerk supervisor
94131 pattern weaver - textiles	13102 payroll clerk
72999 patternmaker - aeronautics	13102 payroll machine operator
53125 patternmaker - computer assisted	13102 payroll officer
53125 patternmaker - textile products	10029 payroll service manager
53125 patternmaker - textile, leather and fur products	12011 payroll supervisor
63221 patternmaker-upholsterer	13102 payroll technician
75110 pavement line painter helper	92021 PCB (printed circuit board) fabrication foreman/woman - electronic equipment manufacturing
75110 pavement line painter	92021 PCB (printed circuit board) fabrication supervisor - electronic equipment manufacturing
75110 pavement striper	41403 peace activist
73400 paver operator	42100 peace officer
72021 pavers and surfacers foreman/woman	41403 peace researcher
94103 paving and stone block maker - concrete and stone products	94140 peanut butter maker
72021 paving contractor	94140 peanut-blanching machine tender - food and beverage processing
72401 paving equipment mechanic	62202 pearl cutter
72021 paving foreman/woman	94219 pearl earring maker
72021 paving gang road boss	94219 pearl maker
75110 paving operations labourer	62202 pearl setter
72021 paving, surfacing and related work foreman/woman	94219 pearl stringer
60020 pawnbroker	80010 peat bog manager
13102 pay accounts clerk	75119 peat digger
13102 pay advisor	94100 peat moss dehydrator tender
13102 pay and benefits administrator	73400 peat-moss-cutting machine operator
13102 pay and benefits clerk	73400 peat-moss-gathering machine operator
10011 pay and benefits director	94103 pebble mill operator - stone products
10011 pay and benefits manager	40020 pedagogical coordinator
12011 pay and benefits supervisor	

94106 pedestal drill operator - metal machining	94219 pencil-eraser maker tender
31112 pediatric audiologist	94219 pencil-eraser-making machine tender
31110 pediatric dentist	94124 pencil-grooving machine tender
32122 pediatric echocardiographer	94219 pencil-making machine operator
31301 pediatric intensive care nurse	94219 pencil-making machine setter
31302 pediatric nurse practitioner	94219 pencil-making machine tender
31301 pediatric nurse	94219 pencil-pointing machine tender
31100 pediatric oncologist	94124 pencil-rounding machine tender
31101 pediatric surgeon	94213 pencil-tip-banding machine tender
31100 pediatrician	95109 pencil-tipping machine feeder
63211 pedicurist	43201 penitentiary guard
31110 pedodontist	41409 penologist
21109 pedologist	84120 penrider
32129 pedorthist	14201 pension administrator - insurance company
42201 peer support worker	10010 pension plans administrator
95101 pellet grinder - metal products manufacturing	14201 pension plans clerk - insurance
94101 pellet maker - foundry	10010 pension services manager
95106 pellet mill worker - food and beverage processing	10011 pensions and benefits manager
94219 pellet press operator - explosives manufacturing	53200 pentathlete
94219 pellet press tender - explosives manufacturing	94133 perch operator - textiles
94100 pellet press tender - primary metal processing	94133 perch operator
94219 pellet press tender	94133 percher - textiles
94100 pellet segregator - primary metal processing	73209 percussion instrument repairer
93100 pelletizing control operator	51122 percussionist
94130 pelt dresser	94152 perfect-binder operator - printing
94130 pelt dyer - hide and pelt processing	94152 perfect-binder set-up operator - printing
94133 pelt grader - hide and pelt processing	94152 perforating machine operator - printing
94133 pelt processing inspector	94152 perforating machine tender - printing
94130 pelt processing worker	85111 perforator helper - oil field services
94130 pelt shearer	85111 perforator loader helper - oil field services
94130 pelt stretcher - hide and pelt processing	94152 perforator operator - printing
94219 pen and pencil assembler	94152 perforator tender - printing
94219 pen and pencil inspector	53120 performance movement teacher
43201 penal institution guard	11202 performers agent
94219 pen-and-pencil-knurling machine operator	51120 performing arts artistic director
95109 pencil blank presser	53121 performing arts extra
94219 pencil maker operator	94110 perfume maker
94219 pencil maker tender	32103 perfusion technologist
94213 pencil-coating machine tender	32103 perfusionist
	31301 perinatal care nurse
	94103 periodic kiln operator - clay products

94103 periodic kilnman/woman - clay products	63102 personal financial services associate
50011 periodical managing editor	63102 personal financial services officer
14300 periodicals clerk - library	64201 personal image consultant
14300 periodicals clerk	64201 personal image counsellor
51100 periodicals librarian	64201 personal improvement consultant
64101 periodicals sales representative - wholesale	11102 personal investment advisor
64101 periodicals sales representative	11102 personal investment counsellor
32111 periodontal hygienist	14201 personal lines clerk - insurance
31110 periodontist	12202 personal lines underwriter
62101 perishable food buyer	63102 personal loans officer
93100 perlite expander control panel operator - mineral products processing	13110 personal secretary
14403 permanent inventory clerk	10021 personal services manager - banking, credit and investment
94101 permanent mould operator - foundry	65109 personal shopper
94219 permanent press sprayer machine	42201 personal skills development instructor - social services
94219 permanent press sprayer tender - garment and fabric products manufacturing	44101 personal support aide - home aide
72320 permastone installer	33102 personal support aide - medical
72320 permastone mason	44101 personal support worker - home support
50011 permission manager - publishing	33102 personal support worker - nursing care
14301 permit clerk	54100 personal trainer
93102 peroxide bleach plant operator - pulp and paper	10021 personal trust manager
41320 personal academic counsellor	11109 personal trust officer
44101 personal aide - home support	64201 personal wardrobe consultant
44101 personal assistant - home care	10011 personnel administration manager
63102 personal banker	12101 personnel administrator
63102 personal banking accounts officer	12101 personnel adviser
63102 personal banking representative	10029 personnel agency manager
00012 personal banking vice-president	10011 personnel and industrial relations director
44101 personal care aide - home care	10011 personnel chief
33102 personal care aide - medical	14102 personnel clerk
44101 personal care attendant - home care	12010 personnel clerks supervisor
33102 personal care attendant - medical	10029 personnel consulting service manager
44101 personal care provider - home care	10011 personnel director
33102 personal care provider - medical	12101 personnel interviewer
22221 personal computer (PC) support analyst	12101 personnel management adviser
64100 personal computer salesperson - retail	10011 personnel manager
41320 personal counsellor - education	12101 personnel officer
14201 personal credit lines clerk	12101 personnel recruitment officer
11102 personal finance advisor	11200 personnel research officer
11102 personal financial planner	14100 personnel scheduling clerk

12101 personnel selection officer	22100 petrochemical engineering technician
14102 personnel services clerk	22100 petrochemical engineering technologist
10011 personnel services director	22100 petrochemical laboratory technologist
10011 personnel services manager	21102 petrographer
11200 personnel standards officer	93101 petroleum blender
12101 personnel supervisor	21101 petroleum chemist
10011 personnel training and development manager	93101 petroleum distillation operator
00012 personnel vice-president - bank	90011 petroleum distribution manager
00012 personnel vice-president - financial, communications and other business services	21332 petroleum engineer
00015 personnel vice-president - goods production, utilities, transportation and construction	22101 petroleum engineering technician
00013 personnel vice-president - health, education, social and community services and membership organizations	22101 petroleum engineering technologist
00014 personnel vice-president - trade, broadcasting and other services	22212 petroleum exploration draftsman
72014 pest control branch supervisor	22101 petroleum field technologist
72014 pest control division supervisor	21102 petroleum geologist
73202 pest control operator	20011 petroleum geology department manager
73202 pest control representative	22101 petroleum geology technologist
60040 pest control service manager	12102 petroleum land administrator
73202 pest control service representative	95102 petroleum process operator helper
72014 pest control supervisor	93101 petroleum process operator
73202 pest control technician	92011 petroleum processing foreman/woman
73202 pest control trapper	92011 petroleum processing shift supervisor
73202 pest controller	22100 petroleum processing tester
73202 pest extermination representative	64101 petroleum product sales representative - wholesale
73202 pest exterminator	00015 petroleum production company regional vice-president
73202 pest fumigator	21332 petroleum production engineer
94110 pesticide formulation blender operator	93101 petroleum refiner
94110 pesticide mixer	72400 petroleum refinery industrial mechanic
60040 pet care services manager	95102 petroleum refinery labourer
94140 pet food cook - food and beverage processing	93101 petroleum refinery operator
65220 pet groomer	21320 petroleum refinery process engineer
60040 pet grooming establishment manager	92011 petroleum refining supervisor
60040 pet grooming salon manager	10020 petroleum research manager - securities
65220 pet master groomer	22100 petroleum research technologist
65220 pet shop attendant	21332 petroleum reservoir engineer
60020 pet store manager	22101 petroleum technician
64100 pet store salesperson	22100 petroleum tester
21320 petrochemical engineer	93101 petroleum treater
	93101 petroleum unit operator
	21332 petroleum well completion engineer

21102 petrologist	41409 philologist
22101 petrology technician	41409 philosopher
21102 petrophysicist	41200 philosophy professor - university
65220 pet-sitter	33101 phlebotomist
60040 pet-sitting service manager	33101 phlebotomy aide
12011 petty cash supervisor	65229 phone agent - personal services
21110 pharmaceutical bacteriologist	31100 phoniatician
21101 pharmaceutical chemist	31100 phoniatrist
92011 pharmaceutical compounding foreman/woman	93101 phosphate process fertilizer maker
93101 pharmaceutical processing operator	94110 phosphoric acid extractor
20011 pharmaceutical products quality assurance (QA) director	51102 photo archivist
62100 pharmaceutical sales representative	22214 photo cartographer
62100 pharmaceutical salesperson	94153 photo developer
32124 pharmaceutical technician	94153 photo developer-printer
22100 pharmaceuticals and toiletries inspector	94153 photo developing inspector
62101 pharmaceuticals buyer	52111 photo editor
22100 pharmaceuticals inspector	94153 photo lab technician
92011 pharmaceuticals production supervisor	52111 photo process letterer - graphic arts
31120 pharmacist consultant	94153 photo processor
31120 pharmacist	52111 photo stencil maker
21101 pharmacological chemist	94153 photo technician
21110 pharmacologist	72022 photocomposer operators supervisor
33103 pharmacy aide	72022 photocomposers supervisor
33103 pharmacy assistant	14112 photocomposing machine keyboard operator
64100 pharmacy clerk	14112 photocomposing machine operator
60020 pharmacy department manager - retail	14112 photocomposing machine tender
30010 pharmacy director	14112 photocomposing-perforating machine operator
33103 pharmacy helper	14112 photocomposition typesetter
60020 pharmacy manager - retail	14112 photocompositor
31120 pharmacy officer - Canadian Armed Forces	22311 photocopier repairer
41200 pharmacy professor - university	22311 photocopier servicer
33103 pharmacy side room attendant	22311 photocopy machine servicer
33103 pharmacy supply assistant	22311 photocopy machine technician
33103 pharmacy technical assistant	12010 photocopy unit supervisor
32124 pharmacy technician supervisor	94150 photocopying machine tender
32124 pharmacy technician	22311 photoelectric sorting machine repairer
80020 pheasant breeder	73401 photoengraved plate proof press operator - printing
85100 pheasant farm worker	73401 photoengraved plate proof puller - printing
94110 phenol extractor operator	94151 photoengraver - printing
60020 philatelist	72022 photoengravers foreman/woman

94151 photoengraving etcher - printing	72022 photographic processing and finishing foreman/woman
94151 photoengraving finisher	94153 photographic processor
94151 photoengraving platemaker	72022 photographic processors supervisor
94151 photoengraving retoucher - printing	64101 photographic services sales representative
94153 photofinisher	64100 photographic studio clerk
73209 photofinishing equipment repairer	60020 photographic studio manager
21102 photogeologist	94153 photographic-film-processing machine operator
21300 photogrammetric engineer	94153 photographic-processing machine operator
22214 photogrammetric technician	52111 photography colourist
22214 photogrammetric technologist	51101 photography museum curator
22214 photogrammetrist	53110 photography supervisor
51101 photograph conservator	94151 photogravure camera operator - printing
94153 photograph developer	53110 photojournalist
94153 photograph developing inspector	14112 photomechanical composition typographer
94153 photograph enlarger	53110 photomicrographer
14301 photograph examiner	21100 photonics physicist
14300 photograph filer - library	94151 photopolymer platemaker
94153 photograph inspector - photographic processing	94201 photoresist printer - electronic equipment manufacturing
94153 photograph mounter	14112 phototypesetter operator
52111 photograph retoucher	14112 phototypesetter terminal operator
53110 photographer	14112 phototypesetter
52111 photographic airbrush artist	14112 phototypesetting machine operator
72022 photographic and film processing foreman/woman	65229 phrenologist
72022 photographic and film processing supervisor	31100 psychiatrist
94153 photographic and film-processing machine operator	41220 physical and health education teacher - secondary school
94110 photographic chemical liquid mixer	41409 physical anthropologist
52111 photographic colourist	21101 physical chemist
94153 photographic enlarger operator	41405 physical education coordinator - education
64100 photographic equipment and supplies salesperson - retail	50012 physical education programs director
94219 photographic equipment assembler	41221 physical education teacher - elementary school
92024 photographic equipment assembly foreman/woman	41220 physical education teacher - secondary school
94219 photographic equipment assembly inspector	41409 physical geographer
94219 photographic equipment inspector	31100 physical medicine and rehabilitation specialist
60020 photographic equipment store manager	21322 physical metallurgical engineer
94153 photographic film printer	21109 physical metallurgist
94153 photographic film processor	22101 physical metallurgy technician
72022 photographic lab foreman/woman	22101 physical metallurgy technologist
94153 photographic printer	21103 physical meteorologist
	21102 physical oceanographer

32109 physical rehabilitation technician	33109 physiotherapy attendant
32109 physical rehabilitation therapist	31202 physiotherapy clinical coordinator
21101 physical research chemist	33109 physiotherapy helper
21210 physical science and engineering statistician	31202 physiotherapy officer - Canadian Armed Forces
41220 physical science teacher - secondary school	31202 physiotherapy supervisor
22310 physical sciences laboratory technician	32109 physiotherapy technician
41200 physical sciences professor - university	21110 phytobiologist
20011 physical sciences program manager	21110 phytopathologist
94104 physical tester - steel mill	33109 phytotherapy assistant
32109 physical therapist assistant (PTA)	51122 pianist
31202 physical therapist	73209 piano action adjuster
32109 physical therapy aide	94219 piano action assembler
33109 physical therapy attendant	94219 piano action inspector-adjuster
31202 physical therapy clinical coordinator	73209 piano action regulator
31202 physical therapy clinical specialist	94219 piano and organ bench worker
31202 physical therapy supervisor	94210 piano and organ finisher
32109 physical therapy technician	94210 piano and organ refinisher
50012 physical training director	94219 piano assembler
54100 physical training instructor	94219 piano assembly inspector
54100 physical training leader	94219 piano back assembler
31303 physician assistant	94219 piano case assembler
31102 physician resident	94219 piano inspector
31301 physician's office nurse	94219 piano mechanism assembler
21100 physicist	73209 piano repairer
41200 physics department chairman/woman - university	73209 piano stringer
41200 physics department chairperson - university	94219 piano subassembler
22310 physics department electronics technologist	51122 piano teacher - private, conservatory or studio lessons
41200 physics department head - university	73209 piano technician
41200 physics professor - university	73209 piano tone regulator
21100 physics research scientist	73209 piano tuner
41220 physics teacher - secondary school	73209 piano tuner-technician
21110 physiological biophysicist	94201 pick and place machine operator - electronic equipment manufacturing
21101 physiological chemist	95105 pick remover - textile processing
21110 physiologist	94130 picker - textile manufacturing
21110 physiologist-biochemist - nuclear medicine	83110 picker truck operator
41200 physiology professor - university	94130 picking machine operator - textile manufacturing
32109 physiotherapist assistant (PTA)	94130 picking machine tender - textile manufacturing
31202 physiotherapist	94100 pickle line operator - primary metal processing
32109 physiotherapy aide	
32109 physiotherapy assistant	

94140 pickleman/woman - food and beverage processing	75110 pile driving ground worker
94140 pickler - food and beverage processing	94130 pile fabric finisher
94130 pickler - hide and pelt processing	73400 pile-driving hammer operator
94100 pickler operator - primary metal processing	75110 pile-driving lead placer helper
90010 pickling plant manager	94130 pile-finishing machine tender - textile manufacturing
94140 pickling solution injector - food and beverage processing	75101 piler - material handling
95105 pick-pulling machine tender	95109 piler - printing
75101 pick-up machine operator	95103 piler - wood processing
52120 pictographer	75101 piler (except processing)
51110 picture editor	94219 pill machine operator
94151 picture engraver - printing	94219 pill maker operator
94153 picture enlarger - photographic processing	94219 pill-coating machine operator
94210 picture frame assembler - furniture and fixtures manufacturing	72600 pilot - air transport
53100 picture framer - museum and art gallery	72600 pilot - Canadian Armed Forces
64100 picture framing consultant - retail	72602 pilot - water transport
94201 picture tube assembler	72600 pilot instructor
94201 picture tube assembly screen aluminizer	92011 pilot plant foreman/woman - chemical processing
94201 picture tube screen aluminizer	22100 pilot plant technician
94201 picture tube tester - electronic equipment manufacturing	22100 pilot plant technologist
94140 pie dough roller	93101 pilot plant tender
94140 pie filling cooker	14404 pilot services dispatcher
94140 pie filling mixer	94107 pin maker - metal products
95105 piece hauler - textile processing	94124 pin maker - wood products manufacturing
84110 pieceworker - logging	72400 pin setter - textile manufacturing
84111 pieceworker - silviculture	53200 ping-pong player
94140 pie-making machine operator	94131 pinning machine operator - textiles
72021 pier foreman/woman	94131 pinning machine operator
94100 piercing mill operator - primary metal processing	75110 pipe aligner - pipeline construction
94100 pig caster - primary metal processing	94100 pipe and tube roll setter - primary metal processing
94100 pig iron pourer	94213 pipe coater-painter
95102 pigment presser	94101 pipe coremaker - foundry
54100 pilates instructor	75110 pipe doper - construction
75110 pile driver operator helper - crane operation	94111 pipe extrusion machine operator - plastic manufacturing
75110 pile driver operator's helper	94103 pipe finisher - clay products
73400 pile driver winch operator	94103 pipe fittings moulder - concrete products
75110 pile driving chainman/woman	95109 pipe grader
72500 pile driving crane operator	72321 pipe insulator
	94103 pipe junction maker - concrete products

72021 pipe laying contractor	84101 pipeline locator - oil field services
74204 pipe locator - utilities	74204 pipeline maintenance worker
53124 pipe organ builder	75110 pipeline mandrel operator
73200 pipe organ erector	92011 pipeline operations supervisor
73200 pipe organ installer	74204 pipeline patrolman/woman
73209 pipe organ tuner and repairer	74204 pipeline rehabilitation worker
94213 pipe spray painter	73209 pipeline safety valve repairer
94103 pipe tester - concrete products	74203 pipeline service truck driver
22230 pipe tester - non-destructive testing	21203 pipeline surveyor
84100 pipe turner - trackman/woman	22230 pipeline testing technician - non-destructive testing
94105 pipe-bending machine operator - metal fabrication	21320 pipeline transport engineer
75110 pipe-cleaning and covering machine operator	73209 pipeline valve repairer
72301 pipefitter - shipbuilding	75110 pipeline welder helper
75110 pipefitter helper - construction	72106 pipeline welder
75119 pipefitter helper - shipbuilding	75110 pipeline worker - construction
72301 pipefitter	75110 pipeline-liner installer
72012 pipefitters foreman/woman	72021 pipelines construction foreman/woman
72012 pipefitters supervisor	90011 pipelines operations manager
72301 pipefitter-steamfitter	94106 pipe-threading machine operator
72012 pipefitting contractor	84100 pipeworker - underground mining
75110 pipelayer - construction	85110 pipeworker helper - underground mining
75110 pipelayer - drainage systems	22212 piping draftsperson
75110 pipelayer - irrigation	21301 piping engineer
73400 pipelayer operator	94132 piping-sewing machine operator
72600 pipeline air patrol pilot	22110 pisciculture bacteriological technologist
75110 pipeline caulker	62022 pit boss gaming
93101 pipeline compressor station operator	75110 pit bottom worker
22233 pipeline construction inspector foreman/woman	94101 pit moulder
22233 pipeline construction inspector	85110 pit scaler - underground mining
70010 pipeline construction manager	85110 pit-scaler helper
70010 pipeline construction superintendent	63200 pizza cook
72021 pipeline construction supervisor	75201 pizza delivery driver
22231 pipeline equipment inspector	10029 placement agency manager
74203 pipeline equipment servicer	10029 placement office manager
92011 pipeline foreman/woman	12101 placement officer - human resources
93101 pipeline gauger	21102 placer geologist
22233 pipeline inspector foreman/woman	53202 placing judge - racetrack
22231 pipeline inspector	42100 plain-clothes officer
72021 pipeline installation supervisor	22213 plane table operator - surveying
75110 pipeline labourer	94120 planer - sawmill

94124 planer - woodworking	85121 plant doctor helper
94124 planer feeder - woodworking	22114 plant doctor
94123 planer grader - wood processing	21110 plant ecologist
94123 planer mill grader - wood processing	72011 plant electrician supervisor
94120 planer mill machine operator	72201 plant electrician
94106 planer operator - metal machining	21321 plant engineer
94120 planer operator - sawmill	72400 plant equipment mechanic
94103 planer operator - stone products	64410 plant gatekeeper
94124 planer operator - woodworking	80021 plant grower - nursery
94120 planer operator	64410 plant guard
94124 planer tender - woodworking	22302 plant layout technician
94120 planerman/woman - sawmill	72400 plant machinery maintenance mechanic
92022 planers, turners, shapers and related wood-machining workers foreman/woman - furniture and fixtures manufacturing	72201 plant maintenance electrician
53100 planetarium interpreter	70012 plant maintenance manager
53100 planetarium technician	72400 plant maintenance mechanic
21202 planner	73112 plant maintenance painter
21202 planning analyst - land use	92100 plant maintenance stationary engineer
10019 planning and organizational development manager	70012 plant maintenance superintendent
41404 planning coordinator - district health council program	73201 plant maintenance worker
13100 planning officer	70021 plant manager - postal and courier services
22302 planning technician	90010 plant manager
00012 planning vice-president - financial, communications and other business services	21110 plant nematologist
00015 planning vice-president - goods production, utilities, transportation and construction	70021 plant operations manager - postal service
00013 planning vice-president - health, education, social and community services and membership organizations	00015 plant operations vice-president
00014 planning vice-president - trade, broadcasting and other services	21110 plant pathologist
11100 plant accountant	22110 plant pathology technician
21110 plant anatomist	22110 plant pathology technologist
90010 plant assistant manager	21110 plant physiologist
21110 plant breeder	21110 plant population biologist
22110 plant breeding technician	22111 plant primary products inspector
85121 plant care worker	85103 plant propagator - greenhouse or nursery
72310 plant carpenter	22111 plant protection inspector
65312 plant cleaner	21110 plant scientist
11100 plant controller	70021 plant superintendent - postal and courier services
14404 plant dispatcher	21110 plant taxonomist
	72102 plant tinsmith
	64320 plant tour guide
	82030 planting and cultivation contractor
	82010 planting crew foreman/woman
	82031 plantscape maintenance contractor

22114 plantscape technician	94111 plastic coagulator
21100 plasma physicist	94212 plastic coating fabricator
94103 plaster die maker	94111 plastic compounder
72999 plaster mould maker - aircraft	94111 plastic compression moulder
33100 plaster moulder - dentures	94212 plastic cutter
72999 plaster pattern maker - aircraft	94111 plastic extruder operator
72999 plaster pattern maker	94111 plastic film roll inspector
33109 plaster room aide	94111 plastic footwear moulder operator
33109 plaster room attendant	92013 plastic inspector foreman/woman
95100 plasterboard cutter - mineral products processing	72321 plastic insulation applicator
94104 plasterboard inspector - mineral products processing	94124 plastic laminator - wood furniture manufacturing
95100 plasterboard machine feeder - mineral products manufacturing	94111 plastic mannequin moulder - plastic manufacturing
94103 plasterboard machine operator	94212 plastic material reeler and cutter
94103 plasterboard-mixing machine tender	94111 plastic mixer operator
73102 plasterer apprentice	94111 plastic mould setter
72014 plasterer foreman/woman	94212 plastic packing fabricator
75110 plasterer helper	94212 plastic parts assembler
73102 plasterer	94111 plastic pipe production worker
72014 plasterer-contractor	94212 plastic piping fabricator
73102 plasterer-decorator	95109 plastic printer helper
72014 plastering and drywall application contractor	94150 plastic printer
72014 plastering and drywalling contractor	64101 plastic product sales representative - wholesale
72014 plastering contractor	94212 plastic products assembler
72014 plastering supervisor	94212 plastic products assembly repairer
94212 plastic and composite worker	94212 plastic products buffer
94200 plastic and painted panels inspector - motor vehicle manufacturing	94212 plastic products fabricator
94212 plastic ankle piece moulder	94212 plastic products finisher
53122 plastic arts artist	94212 plastic products former
94111 plastic bag machine operator	92013 plastic products inspection supervisor
94111 plastic bag maker operator	94212 plastic products inspector and tester
94111 plastic bag production machine operator	94212 plastic products inspector
94212 plastic bottle trimmer	92013 plastic products inspectors supervisor
94212 plastic box maker	94212 plastic products laminator
94212 plastic case assembler	92013 plastic products manufacturing foreman/woman
94212 plastic casket maker	94212 plastic products manufacturing inspector
94111 plastic centrifugal caster	95104 plastic products manufacturing labourer
94111 plastic coagulating tank tender	95104 plastic products manufacturing machine operator helper
94111 plastic coagulation operator	92013 plastic products manufacturing supervisor
	94212 plastic products trimmer

94212 plastic products vacuum-forming machine tender	94212 plastics trimmer
90010 plastic products-manufacturing plant manager	94111 plastics-blending machine tender
94212 plastic reproduction layup worker	94111 plastics-moulding machine operator
94212 plastic sheet finisher	94111 plastics-moulding machine setter
73401 plastic sheet offset press operator	94111 plastic-spreading machine operator
94212 plastic sign trimmer and assembler	72400 plastics-processing equipment mechanic
31101 plastic surgeon	94111 plastics-processing machine setter
31101 plastic surgery specialist	92013 plastics-processing shop foreman/woman
94212 plastic tank assembler	92013 plastics-processing shop supervisor
94212 plastic template builder	94105 plate burner - metal fabrication
94212 plastic toy assembler	94212 plate changer - plastic manufacturing
94111 plastic windshield processor	14100 plate filing clerk
94111 plasticator operator	94151 plate finisher - printing
94111 plastic-extrusion operator	75110 plate fitter helper - construction
94111 plastic-fibre-extruding machine tender	73111 plate glass installer
94111 plastic-film extrusion machine operator	94151 plate grainer - printing
95109 plastic-packing machine tender	95101 plate grinder - metal products manufacturing
94111 plastic-pipe production machine operator	94151 plate processor - printing
94111 plastic-pipe-extruder operator	94151 plate processor operator - printing
94111 plastics and plastic products compounder	94100 plate roller - primary metal processing
21101 plastics and resins chemist	94100 plate rolling mill operator - primary metal processing
22100 plastics and synthetic resins technician	94105 plate shear operator - metal fabrication
94212 plastics assembler	72010 plate shop foreman/woman
94212 plastics cementer	95101 plate worker helper - metal products manufacturing
94212 plastics cutter	94151 plate-graining machine tender
21320 plastics engineer	94151 platemaker - printing
94111 plastics imprinting machine tender	94151 platemaker
94212 plastics inspector	72022 platemakers supervisor
94212 plastics laminator - plastic manufacturing	94151 platemaking etcher
94111 plastics machine operator	72022 platemaking supervisor - printing
22302 plastics manufacturing technician	94122 platen press operator - paper converting
95109 plastics masker	73401 platen press operator - printing
94111 plastics moulder	94152 platen press operator, foil stamping
22302 plastics moulding technician	73401 platen press tender
94110 plastics pelletizer	94205 plate-parting machine operator - electrical equipment manufacturing
94111 plastics press operator	62202 plater - jewellery manufacturing
94111 plastics processing compounder	72104 plater - shipbuilding
92013 plastics shop foreman/woman	95101 plater helper - metal fabrication
94111 plastics strainer operator	95101 plater helper
22302 plastics technician	

72104 plater	72300 plumbing heat technician - Canadian Armed Forces
72022 plateroom supervisor - printing	22233 plumbing inspector
72104 plater-welder	72300 plumbing installer
72104 platework fabricator and fitter	72300 plumbing mechanic
72010 platework fabricator supervisor	94112 ply assembler - rubber
72104 platework fabricator	94112 ply splicer - rubber products manufacturing
72010 platework fabricators foreman/woman	94123 plywood and veneer matcher - wood processing
72104 platework fitter	94129 plywood and veneer patcher and repairer
82021 platform superintendent - oil and gas drilling	95103 plywood and veneer plant labourer
94107 plating equipment fixture maker	94219 plywood boat veneer layer
95101 plating room helper	94129 plywood bundler machine operator
94213 plating tank operator	95103 plywood dryer feeder
41301 play therapist	94123 plywood grader - wood processing
52113 playback operator	94123 plywood grader
54100 playground leader	92014 plywood inspection foreman/woman - wood processing
75212 playground maintenance man/woman	94123 plywood inspector - wood processing
54100 playground worker	94123 plywood inspector
51111 playwright	92014 plywood making foreman/woman
60020 pleasure boat dealer	94129 plywood panel assembler
65320 pleat finisher - laundry and dry cleaning	94129 plywood panel groover operator - wood processing
65320 pleat presser - laundry and dry cleaning	94129 plywood patcher machine operator
94130 pleater - textile manufacturing	94129 plywood press operator
94219 pleating machine tender - garment manufacturing	94129 plywood-sizing saw tender - wood processing
94212 Plexiglas assembler	75110 pneumatic drill operator - construction
94212 Plexiglas former	75110 pneumatic hammer operator - construction
94110 plodder operator	73209 pneumatic tool repairer
94140 plug maker - tobacco processing	73209 pneumatic tube repairer
94140 plug-cutting machine tender - tobacco processing	73209 pneumatic unit tester and repairer
95100 plugger - primary metal processing	31100 pneumologist
72300 plumber - pipefitting	94150 pochoir silk-screen printing machine operator
72300 plumber apprentice	95109 pocket marker - garment manufacturing
72012 plumber foreman/woman	94132 pocket setter
75110 plumber helper	94107 pocketed spring machine tender
72300 plumber	95109 pocket-folding machine feeder-loader - printing
72012 plumbers supervisor	30010 podiatric clinic manager
72012 plumbing and heating contractor	31209 podiatrist
62100 plumbing and heating services sales representative	51111 poet
72012 plumbing contractor	11201 point of sale system manager
22303 plumbing estimator - construction	94100 pointer operator - primary metal processing

64321 poker croupier	95109 polisher - shoe manufacturer
53200 poker player	94130 polisher - textile fibre
53124 poker-work artisan	94107 polishing machine operator - metal products
84110 pole cutter	94212 polishing machine operator - plastic manufacturing
75101 pole distributor operator	33109 polishing pad moulder
94124 pole framer - wood products	51113 political analyst - radio or television
94123 pole inspector - wood processing	52120 political caricaturist
94203 pole shoe assembler - industrial electrical equipment	52120 political cartoonist
75101 pole stacker operator	51113 political columnist
94130 poler - textile manufacturing	41409 political geographer
95104 pole-up man/woman - rubber products manufacturing	41409 political historian
42100 police cadet	00013 political organization general manager
40040 police captain	40030 political organization manager
40040 police chief - regional operations	41403 political organizer
40040 police chief	00013 political party president
41210 police college teacher	51113 political reporter
42100 police constable	41200 political science professor - university
42100 police corporal	41409 political scientist
14404 police department dispatcher	41409 politician
42100 police diver - salvage	14110 poll clerk
42100 police diver	41403 pollster
40040 police force inspector	21300 pollution control engineer
40040 police inspector	21120 pollution control inspector
41210 police instructor	22300 pollution control technician
41310 police investigator	64410 polygraph examiner
40040 police lieutenant	64410 polygraph operator
42100 police officer	64410 polygraphist
53110 police photographer	21101 polymer chemist
42100 police sergeant	21320 polymer engineer
40040 police staff inspector	93101 polymerization kettle operator
14100 police station clerk	93101 polymerization unit operator
40040 police superintendent	22100 polymers tester
42100 policeman/woman	32103 polysomnographic technologist
40012 policy and planning director - education programs	82010 pond foreman/woman
14201 policy change clerk - insurance	85120 pondman/woman
14201 policy clerk - insurance	65211 pony ride operator
41404 policy development officer - nursing homes	41406 pool activities coordinator
14201 policy information clerk - insurance	72014 pool and patio contractor
94103 polisher - concrete, clay and stone products	54100 pool coordinator - recreation
	73200 pool equipment installer

54100 pool lifeguard	74101 postal carrier
65211 pool parlour attendant	74102 postal clerk - Canadian Armed Forces
62029 pool parlour supervisor	74100 postal clerk - mail and parcel sorting
73200 pool service routeman/woman	64401 postal clerk - retail services
73200 pool servicer	72025 postal clerks supervisor
51122 pop singer	64401 postal counter clerk
94140 popcorn candy maker	64410 postal inspection officer
95106 popcorn maker - food and beverage processing	74101 postal service deliverer
65201 popcorn vendor	64410 postal service inspector
21110 population geneticist	64101 postal services commercial sales representative
95109 porcelain enamel products cleaner	64401 postal services wicket clerk
95100 porcelain glazer - mineral products manufacturing	72025 postal station employees supervisor
95109 porcelain products cleaner	70021 postal station superintendent
65202 pork cutter - retail or wholesale	72025 postal station supervisor
94143 pork grader	64401 postal wicket clerk
84120 pork production technician apprentice	74101 postal worker
84120 pork production technician	72025 postal workers supervisor
70020 port captain - water transport	70021 postal zone facilities manager
70012 port director	70021 postal zone manager
65210 port redcap	41200 postdoctoral fellow
21203 port surveyor	52120 poster artist
72421 portable appliance repairman/woman	52111 poster layout designer
95109 portable diamond drill and saw operator helper	52111 poster painter
94103 portable diamond drill and saw operator	72025 postmaster/mistress
72421 portable electric household appliance repairer	33109 post-mortem attendant
94202 portable electrical appliance assembler	52113 postproduction technician
94124 portable machine sander tender - woodworking	40012 post-secondary education director - public administration
94124 portable sawer - woodworking	40012 post-secondary education director
72106 portable spot welder	41201 post-secondary research assistant
11101 portfolio manager	41201 post-secondary teaching assistant
53122 portrait painter	42204 postulant
53110 portrait photographer	83121 pot fisherman/woman
11200 position classifier	94100 pot liner - metal processing
32121 positron-emission tomography (PET) technologist	92010 pot room foreman/woman - primary metal and mineral products processing
84110 post cutter	92010 pot room foreman/woman - primary metal processing
75110 post hole driller	94100 pot tender - primary metal processing
64401 post office clerk	65201 pot washer
70021 post office manager	83100 potash miner
70021 postal area manager	94140 potato chip machine operator

95106 potato chip sorter	94141 poultry hanger
80020 potato farmer	22111 poultry inspector
80020 potato grower	82030 poultry operation supervisor
80020 potato producer	95106 poultry packager
95106 potato-peeling machine tender	94141 poultry plucker tender
95100 potlining mixer helper - primary metal processing	94141 poultry plucker
53124 potter	94141 poultry preparer
94103 pottery and porcelain chipper	92012 poultry preparers foreman/woman
94103 pottery and porcelain former - clay products	80020 poultry producer
94103 pottery and porcelain grinder	21110 poultry scientist
94103 pottery and porcelain polisher	94141 poultry slaughterer - food and beverage processing
94103 pottery and porcelain presser	22110 poultry technician
94103 pottery and porcelain sagger maker	22110 poultry technologist
94103 pottery and porcelain sander	31103 poultry veterinarian
94103 pottery and porcelain turner - clay products	94141 poultry worker - meat packing plant
94103 pottery and porcelain ware caster	85100 poultry yard cleaner
94104 pottery and porcelain ware inspector	82030 poultry-hatching services contractor
53123 pottery designer	94219 pouncer - hat manufacturing
94103 pottery dryer - clay products	65220 pound animal attendant
94103 pottery model maker	65220 pound attendant
94103 pottery mould maker	83121 pound net fisherman/woman
94103 pottery trimmer	43202 pound officer
94140 pouch line operator - food processing	94100 pourer - metal processing
94141 poultry boner	41403 poverty researcher
80020 poultry breeder - egg production	94110 powder blender - chemical processing
80020 poultry breeder	85110 powder carrier - underground mining
94141 poultry butcher - meat packing plant	94213 powder coater
95106 poultry cooler worker - food and beverage processing	14401 powder keeper
94141 poultry dresser	95100 powdered metal mixer - primary metal processing
92012 poultry eviscerating foreman/woman	95100 powdered metal salvager - primary metal processing
94141 poultry eviscerator	94140 powdered milk dryer operator
82030 poultry farm foreman/woman	83100 powderman/woman - underground mining
85100 poultry farm labourer	94105 power brake operator - metal fabrication
80020 poultry farm manager	75210 power cable ferry operator
85100 poultry farm worker	75119 power cable system installer helper
80020 poultry farmer - egg production	92100 power control room operator - electrical power systems
94143 poultry grader	72500 power crane operator
92012 poultry graders foreman/woman	75110 power curber tender
92012 poultry graders supervisor	

92100 power dispatcher - electrical power systems	94105 power press operator - metal products manufacturing
92100 power dispatcher - generating station	94105 power press operator
92100 power dispatcher	94105 power press set-up operator - metal fabrication
72202 power electrician	92100 power reactor operator - electrical power systems
92100 power engineer apprentice	94124 power saw operator - woodworking
92011 power engineer foreman/woman	94219 power screwdriver operator
92100 power engineer	94105 power shear operator - metal fabrication
22301 power equipment design technician	94105 power shear tender - metal fabrication
21301 power generation engineer	72401 power shovel mechanic
73400 power grader operator	75110 power shovel operator helper
95101 power hammer helper - metal fabrication	73400 power shovel operator
94105 power hammer operator - metal forging	94204 power snowblower assembler
94204 power lawn mower assembler	72202 power station electrician - electrical power system
72600 power line air patrol pilot	72202 power station electrician
72011 power line and cable workers foreman/woman	92100 power station operator - electrical power systems
72203 power line maintainer - electric power systems	92011 power station operators foreman/woman
72011 power line maintenance workers front line supervisor	92011 power station shift supervisor
72203 power line patroller	92011 power station supervisor
72011 power line repair foreman/woman	92100 power substation operator
72203 power line repairer - electric power systems	74205 power sweeper operator - public works
72011 power line repairers foreman/woman	93101 power switchboard operator - chemical
72011 power line service foreman/woman	92100 power switchboard operator - electrical power systems
72011 power line technician foreman/woman	92100 power switchboard operator apprentice - electrical power systems
72203 power lineman/woman - electricity production and transmission	72202 power system electrician
72203 power lineman/woman	72011 power system electricians supervisor
72011 power linemen/women and cable installers supervisor	92100 power system operator - offshore drilling
94131 power loom weaver	92100 power system operator
93200 power plant assembler - aircraft assembly	72011 power systems electricians foreman/woman
92011 power plant chief substation operator	72011 power systems electricians supervisor
21301 power plant engineer	72421 power tool repairer
92011 power plant foreman/woman	94203 power transformer assembler
93200 power plant installation mechanic - aircraft assembly	94203 power transformer core builder
93200 power plant mechanic - aircraft assembly	72422 power transformer repairer
92100 power plant operator - electrical power systems	72422 power transformer repairman/woman
92100 power plant operator	92023 power transmission assembly foreman/woman
92100 power plant stationary engineer	75101 power truck driver - material handling
74204 power pole inspector	
94105 power press operator - metal fabrication	

75119 powered-machine or towed-machine repairer helper - construction	94106 precision lapper - metal machining
72202 powerhouse electrician - electrical power system	94106 precision lathe operator - metal machining
75119 powerhouse electrician helper	94219 precision lens edger - non-prescription
95102 powerhouse helper	94219 precision lens grinder - non-prescription
72400 powerhouse machinery mechanic	94219 precision lens polisher - non-prescription
75119 powerhouse mechanical repairer helper	72100 precision machinist
75119 powerhouse oiler	94219 precision optical lens polisher - non-prescription
92100 powerhouse operator	72102 precision sheet metal fabricator
72203 powerline technician	72102 precision sheet metal mechanic
84101 power-tong operator	72102 precision sheet metal worker
41220 practical and applied arts teacher	21300 precision survey engineer
83121 prawn fisherman/woman	72101 precision tool maker
41302 preacher	72106 precision welder
64410 preboarding security guard	84111 precommercial tree thinner
75110 precast concrete caulker	94140 precooked sausage maker
72105 precast concrete erector	92024 prefab house assembly foreman/woman
73100 precast concrete finisher	92024 prefab housing assembler foreman/woman
94103 precast concrete moulder	94211 prefab housing assembler
94103 precast concrete slab maker	92024 prefab housing assembly foreman/woman
92010 precast concrete working foreman/woman	72310 prefabricated house carpenter
94103 precast terrazzo maker	94211 prefabricated housing assembler
22101 precious metal assayer	92024 prefabricated joinery assemblers foreman/woman - wood products manufacturing
94100 precious metal recoverer	92024 prefabricated joinery assembly foreman/woman - wood products manufacturing
40040 precious metals theft inspector - police	92024 prefabricated joinery assembly supervisor
62202 precious stone setter	72310 prefabricated structure carpenter
95100 precipitator helper - primary metal processing	72404 preflight mechanic
94110 precipitator operator - chemical processing	94151 pre-flight operator - printing
94100 precipitator tender - primary metal processing	94111 preform machine tender - plastic manufacturing
94106 precision grinder operator - metal machining	75110 preheater tender - pipelines
94106 precision grinder set-up operator	13100 preliminary press planner
94106 precision honing machine operator - metal machining	00010 premier
92024 precision instrument and related equipment assembly foreman/woman	41407 Premier's Office officer (provincial government)
94201 precision instrument assembler - electronic equipment manufacturing	14201 premium rater - insurance
94219 precision instrument assembly inspector	94213 prep line attendant - bulk galvanizing
72010 precision instrument machine shop foreman/woman	92015 preparation department foreman/woman - textiles
22312 precision instrument mechanic	63221 preparation upholsterer
22313 precision instrument technician - avionics	53100 preparator
	72022 preparatory supervisor - printing
	94130 prepared hide and pelt dresser

13100 prepress planner - publishing	94205 press operator - electrical equipment manufacturing
72022 prepress supervisor - printing	94140 press operator - food and beverage processing
94151 prepress technician	94111 press operator - plastic manufacturing
72022 prepress workers supervisor	73401 press operator - printing
94151 preprint-coating machine tender	94112 press operator - rubber products manufacturing
14112 preproduction operator	94140 press operator - tobacco processing
41301 preretirement counsellor	95109 press paper feeder - printing
41302 presbyter	14301 press reader
40030 preschool centre director	51113 press reporter
42202 preschool helper	11202 press secretary
40030 preschool program director	72022 press supervisor - printing
42202 preschool supervisor	94205 press tender - electrical equipment manufacturing
52119 presentation coordinator - broadcasting	94105 press tender - pierce and shave
94133 preshrinking process tester - textiles	94140 presser - food and beverage processing
00012 president - financial, communications and other business services	65320 presser - laundry and dry cleaning
00015 president - goods production, utilities, transportation and construction	94112 presser - rubber products manufacturing
00011 president - government services	94130 presser-threader - textile manufacturing
00013 president - health, education, social and community services and membership organizations	95109 pressing machine feeder - garment manufacturing
00014 president - trade, broadcasting and other services	65320 pressing machine tender - laundry and dry cleaning
00012 president and chief executive officer - financial, communications and other business services	73401 pressman/woman - printing
00012 president and chief executive officer	95109 pressroom floor attendant - printing
00014 president and director - trade, broadcasting and other services	72022 pressroom foreman/woman - printing
00013 president and general manager - health, education, social and community services and membership organizations	72022 pressroom supervisor - printing
00014 president and general manager - trade, broadcasting and other services	93200 pressure compartment sealer and tester - aircraft assembly
42200 presiding justice of the peace	73209 pressure control calibrator
53202 presiding steward - racetrack	94140 pressure cooker operator - food and beverage processing
11202 press agent	94219 pressure switch inspector
94105 press brake operator - metal products manufacturing	94219 pressure switch tester
94105 press brake operator	22230 pressure tank tester
14301 press clipper	72103 pressure vessel boilermaker
95109 press helper - printing	72103 pressure vessel fabricator
94112 press line operator - rubber products manufacturing	22230 pressure vessel tester
	72106 pressure vessel welder
	94111 pressure-sensitive coater operator - plastic manufacturing
	94140 pressurized container filler - food and beverage processing

55109 prestidigitator	40021 principal
22233 pre-stressed concrete inspector	94213 print applier - production
94140 pretzel baker - food and beverage processing	94110 print colour mixer - chemical processing
22232 prevention officer - occupational health and safety	94153 print developer
33100 preventive dental assistant	94153 print finisher - photographic processing
72400 preventive maintenance mechanic technician	94153 print inspector - photographic processing
31100 preventive medicine physician	94153 print retoucher - photographic processing
31100 preventive medicine specialist	94151 print roller repairer
31103 preventive medicine veterinarian	94153 print tender - photographic processing
65102 price checker - grocery store	94151 print transferrer - printing
65102 price clerk - retail	94201 printed circuit board (PCB) assembler
41401 price economist	94201 printed circuit board (PCB) assembly inspector
64409 price information clerk	94201 printed circuit board (PCB) assembly machine operator - electronic equipment manufacturing
12010 price information clerks supervisor	94201 printed circuit board (PCB) assembly machine operator
11201 price management analyst	94201 printed circuit board (PCB) etcher
65102 price marker - supermarket	92021 printed circuit board (PCB) fabrication foreman/woman - electronic equipment manufacturing
62010 price marker supervisor - retail	94201 printed circuit board (PCB) fabrication inspector
41302 priest	94201 printed circuit board (PCB) fabrication machine operator
31301 primary care nurse	92021 printed circuit board (PCB) fabrication supervisor - electronic equipment manufacturing
32102 primary care paramedic	94201 printed circuit board (PCB) in-circuit machine and repairing machine operator
31102 primary care physician	94201 printed circuit board (PCB) in-circuit test machine and repair operator
70012 primary grain elevator manager	94201 printed circuit board (PCB) inspector and tester - electronic equipment manufacturing
31302 primary health care nurse practitioner	94201 printed circuit board (PCB) inspector
92010 primary metal and mineral products processing foreman/woman	94150 printer operator - printing
92010 primary metal and mineral products processing supervisor	72020 printer repairers foreman/woman
95100 primary metal processing labourer	73401 printer
31301 primary nurse	72022 printers foreman/woman
41221 primary school teacher	72022 printers supervisor
43201 primary worker - correctional service	94150 printer-slotter operator
43201 primary worker/kimisinaw - correctional service	94150 printer-slotter tender
00010 prime minister	94151 printing cylinder engraver
41407 Prime Minister's Office officer (federal government)	92023 printing equipment assembly foreman/woman
94213 primer sprayer	72020 printing machine mechanics foreman/woman
94219 primer-inserting machine tender	94150 printing machine operator - printing
40019 principal clerk of legislative committees	
40019 Principal Clerk of the House of Commons	
40019 Principal Clerk of the Legislative Assembly	
22303 principal estimator - construction	

94130 printing machine operator - textile manufacturing	72205 private branch exchange (PBX) and private automatic branch exchange (PABX) inspector - telecommunications
72020 printing machine repair foreman/woman	72205 private branch exchange (PBX) and private automatic branch exchange (PABX) installer - telecommunications
72020 printing machine repairers foreman/woman	72205 private branch exchange (PBX) and private automatic branch exchange (PABX) installer and repairer - telecommunications
72400 printing machinery mechanic	72205 private branch exchange (PBX) and private automatic branch exchange (PABX) installer and repairer - telecommunications
62100 printing machinery sales representative	72205 private branch exchange (PBX) and private automatic branch exchange (PABX) repairer - telecommunications
62100 printing management technician	72205 private branch exchange (PBX) inspector - telecommunications
90010 printing manager	72205 private branch exchange (PBX) installer - telecommunications
90010 printing plant manager	72205 private branch exchange (PBX) installer - telecommunications
94151 printing plate engraver	72205 private branch exchange (PBX) repairer - telecommunications
94151 printing plate moulder	31301 private care nurse
94151 printing plate presensitizer tender	75200 private chauffeur
14403 printing plates order clerk	64410 private detective
72020 printing press and machine mechanics foreman/woman	31301 private duty nurse
73401 printing press assistant operator	75200 private household chauffeur
95109 printing press feeder	10029 private investigation and security service manager
72100 printing press machinist	64410 private investigator
73401 printing press operator	64410 private investigators supervisor
72022 printing press operators supervisor	21111 private lands forester
94111 printing roller moulder - plastic manufacturing	40021 private primary college principal
64101 printing services sales representative	44200 private recruit - Canadian Army
72022 printing shop foreman/woman	40021 private school headmaster/mistress
72022 printing supervisor	40021 private school principal
62100 printing supplies salesperson	13110 private secretary
73401 printing technologist	64410 private security officer
41210 printing technology teacher - general and vocational college (CEGEP)	41220 private teacher - secondary school
94106 printing-roller finisher	40020 private vocational school director
94106 printing-roller grinder	41407 Privy Council Office officer
94106 printing-roller polisher	53200 prize fighter
53122 printmaker - visual arts	41100 probate court judge
53122 printmaking teacher	41311 probation and parole officer
74101 priority post carrier	41311 probation officer
94219 prism maker operator	94100 process assistant - zinc pressure leach
94219 prism maker	94151 process camera operator
43201 prison guard	94140 process cheese cooker
43201 prison officer	94140 process cheese formulator
40030 prison warden	
13100 privacy officer	
44200 private - Canadian Army	
43200 private bailiff	

94143 process control checker - food and beverage processing	62101 produce buyer
21101 process control chemist	65102 produce clerk
22312 process control equipment mechanic	62010 produce department supervisor
22312 process control equipment repairer	94143 produce grader - food and beverage processing
22312 process control equipment service technician	22111 produce inspector
94140 process control operator - food and beverage processing	60020 produce manager - retail
93101 process control system operator	14400 produce shipper
94201 process inspector - electronic equipment manufacturing	51120 producer - performing arts
21310 process instrumentation engineer	51120 producer-director
94140 process operator - food and beverage processing	22211 product designer
93100 process operator - primary metal and mineral products processing	94210 product inspector - furniture manufacturing
93100 process operator - zinc pressure leach	94213 product lacquer-sprayer
22212 process piping draftsperson	90010 product line manager
43200 process server	11202 product manager - marketing
93101 process technician - chemical processing	60010 product manager
94201 process technician - electronic equipment manufacturing	95109 product marker
94201 process tester - electronic equipment manufacturing	94213 product painter
94121 processed paper rewinder	94213 product spray painter
14112 processing and output compositor	94213 product stainer
72020 processing and packaging equipment maintenance foreman/woman	94213 product surface preparer and prefinisher
72020 processing and packaging equipment maintenance supervisor	94143 product tester - food and beverage processing
95109 processing equipment cleaner	94219 product trimmer
93101 processing laboratory operator	11100 production accountant
93101 processing operator - chemical processing	14402 production agent
72400 processing plant mechanic	22302 production and quality control technologist
94202 process-inspector and tester - electrical equipment manufacturing	94202 production assembler - electrical equipment manufacturing
94151 processor - printing	53111 production assistant - motion pictures and broadcasting
31100 proctologist	53111 production assistant
14403 procurement clerk	94213 production brush painter
10012 procurement director	21320 production chemical engineer
10012 procurement manager	90010 production chief
12102 procurement officer	14402 production clerk
10012 procurement operations director	12013 production clerks supervisor
12102 procurement specialist	94213 production coating machine operator
	14402 production control clerk
	70021 production control manager - postal service
	14402 production control officer
	22302 production control technologist
	13201 production controller

82021 production coordinator - energy	92020 production line foreman/woman - motor vehicle manufacturing
52119 production coordinator - motion pictures, broadcasting and performing arts	94205 production line setter and servicer - electrical equipment manufacturing
52119 production coordinator - radiobroadcasting	72106 production line solderer
52119 production coordinator - video games	72106 production line spot welder
52119 production coordinator - visual effects	94205 production line storage battery repairer - electrical equipment manufacturing
13201 production coordinator	72106 production line welder
95104 production day labourer - tire industry	83100 production loader operator
51120 production designer - motion pictures, broadcasting and performing arts	94205 production machine operator - electrical equipment manufacturing
51120 production director - motion picture	94205 production machine set-up operator - electrical appliance and equipment manufacturing
83100 production driller	72010 production machine shop foreman/woman
51110 production editor	94106 production machine tool operator
94213 production electroplater	72020 production machinery maintenance foreman/woman
21321 production engineer	72020 production machinery maintenance mechanic supervisor
20010 production engineering manager	72400 production machinery maintenance mechanic
72405 production equipment fitter	72020 production machinery maintenance mechanics foreman/woman
72020 production equipment maintenance mechanic supervisor	72400 production machinery mechanic
12201 production examiner	80010 production manager - coal mining
13201 production expediter	90010 production manager - manufacturing
92021 production foreman/woman - electronics manufacturing	90010 production manager - printing
92015 production foreman/woman - fabric, fur and leather products manufacturing	10030 production manager - telecommunications
92015 production foreman/woman - fur products manufacturing	14402 production material estimator
82020 production foreman/woman - mining and quarrying	72400 production mechanic
00015 production general manager - goods production, utilities, transportation and construction	94106 production metal grinder operator
90010 production head	83100 production miner
95106 production helper - food and beverage processing	14402 production officer
95101 production helper - metal coating	90010 production operations manager
95100 production helper - primary metal and mineral products processing	93101 production operator - chemical processing
95106 production helper	94201 production operator - electronic equipment manufacturing
72106 production induction brazier	94200 production operator - motor vehicle manufacturing
95106 production labourer - food processing	94112 production operator - rubber products manufacturing
94205 production line battery repairer - electrical equipment manufacturing	95109 production painter helper
94202 production line electrical appliance repairer	94213 production painter
	94213 production painter-finisher

90010 production planner	53200 professional athlete
12013 production planning clerks supervisor	53201 professional athletes team coach
90010 production planning coordinator	50012 professional athletes team manager
90010 production planning manager	53200 professional boxer
22302 production planning technician	40010 professional development and employment district director - government services
13201 production scheduler	40010 professional development director - government services
90010 production senior coordinator	31121 professional dietitian (P.Dt.)
52113 production sound recordist	22303 professional estimator - construction
72106 production spot welder	50012 professional football team manager
90010 production superintendent	21111 professional forester
92024 production supervisor - assembly	54100 professional golf instructor
92012 production supervisor - cannabis processing	50012 professional hockey team manager
92024 production supervisor - consumer products	64201 professional image consultant
92021 production supervisor - electronics manufacturing	21203 professional land surveyor
92012 production supervisor - food and beverage processing	31121 professional nutritionist
82010 production supervisor - logging	53200 professional pool player
72010 production supervisor - machine shop	22303 professional quantity surveyor
92024 production supervisor - machining	10029 professional services manager - business services
72022 production supervisor - printing	50012 professional sport team general manager
22310 production support technician - electronics manufacturing	50012 professional sport team manager
52112 production switcher	00014 professional sports club chief financial officer (CFO)
52119 production technician - motion pictures, broadcasting and performing arts	53201 professional sports scout
22100 production technician - pharmaceuticals	53201 professional sports team coach
22302 production technologist - sawmill	53200 professional sportsman/woman
94201 production tester - electronic equipment manufacturing	53201 professional team coach
83101 production testing operator - oil and gas well drilling	54100 professional tennis instructor
72400 production tooling maintenance mechanic	50012 professional track and field team general manager
72400 production tooling mechanic	50012 professional track and field team manager
94213 production touch-up painter	41210 professional training instructor
84101 production tubing operator - oil field services	73300 professional truck driver
63221 production upholsterer	41200 professor emeritus - university
95109 production weigher	41200 professor of computer science - university
72106 production welder	41200 professor of medicine - university
94210 production worker - furniture manufacturing	94111 profile extrusion operator
12102 products administrator	94111 profile extrusion processing operator
21112 professional agrologist (P.Ag.)	94111 profile extrusion set-up operator
00013 professional association executive director	94106 profile milling machine operator - metal machining

94219 profile saw operator - jewellery	94219 projector assembly inspector
94124 profile shaper operator - woodworking	11202 promotion strategies consultant
94219 profile trimmer - jewellery	65109 promotions demonstrator
94132 profile-pocket sewing machine operator	10022 promotions manager
94106 profiling machine operator - metal machining	53111 prompter
14100 program and service delivery clerk - government services	14201 proof clerk - financial sector
43100 program assistant - education	73401 proof press operator - printing
52119 program coordinator - broadcasting	73401 proof press operator
41405 program coordinator - education	73401 proof pressman/woman - printing
41400 program coordinator - environmental organization	64400 proof teller - bank
40020 program coordinator - post-secondary education	73401 proofer - printing
41402 program delivery officer - business development	73401 proofing hand - printing
40012 program development and educational planning director - public administration	73401 proofing press operator
41405 program development specialist - college	94151 proofmaker - printing
51120 program director - broadcasting	94151 proofmaker
50011 program general manager - broadcasting	14301 proofreader copy-reader
41402 program officer - international development agency	14301 proofreader
51113 program researcher - radio or television	94150 proofsheets approver - printing
40012 program services director - education	65101 propane gas attendant
41406 program supervisor - sports and leisure	65101 propane gas pump attendant
51112 programmed-instruction writer	65101 propane refueler
21230 programmer analyst	65101 propane tank attendant
50011 programming director - broadcasting	93101 propellant blender
50011 programming director - television	72100 propeller inspector - machining
52119 programming manager	93200 propeller mechanic - aircraft assembly
40012 programs evaluation assistant director - education	72020 propeller repair foreman/woman
72101 progressive die fitter	52119 properties custodian - stage productions or motion pictures
11100 project accountant	11100 property accountant
13100 project administration officer	13101 property acquisitions area manager
21301 project engineer - building systems	12201 property adjuster - insurance
00015 project executive - construction	13101 property administrator
21111 project forester	14201 property and equipment insurance clerk
20011 project management chief - scientific affairs	12203 property appraiser
21301 project mechanical engineer	12203 property assessor
53111 projectionist	14201 property clerk
94219 projector assembler	13101 property leasing coordinator
	13101 property management agent
	13101 property management officer
	13101 property management operations coordinator
	70012 property manager

52119 property master - broadcasting	14404 protective signal operator
52119 property master - motion pictures, broadcasting and performing arts	75119 protective signal servicer helper
42200 property paralegal	95109 protective signalling installer helper - manufacturing
53111 property person	21101 protein chemist
13101 property rental agent	42200 prothonotary
13101 property rental coordinator	41407 protocol officer - government services
13101 property rentals manager	41407 protocol officer
13101 property section head	72100 prototype machinist
43202 property standards inspector	21110 protozoologist
21203 property surveyor	21110 protozoology biologist
12202 property underwriter - insurance	14103 provincial court clerk
12202 property underwriter	41100 provincial court judge
43202 property use inspector	41100 provincial court of appeal justice
12203 property valuator	21203 provincial land surveyor
51112 proposal writer	41100 provincial supreme court justice
53111 props handler	53201 provincial team coach
53111 props person	31200 provisional psychologist
21390 propulsion engineer - aerospace vehicles	40020 provost - university
72404 propulsion technician	33102 psychiatric aide
41101 prosecuting attorney	31301 psychiatric and mental health nurse
14103 prosecution clerk	31301 psychiatric nurse
41101 prosecutor	31300 psychiatric nursing supervisor
21102 prospecting geologist	41300 psychiatric social worker
22101 prospector	31100 psychiatrist - Canadian Armed Forces
32129 prosthetic aide	31100 psychiatrist
32129 prosthetic assistant	41200 psychiatry professor - university
32129 prosthetic technician	65229 psychic consultant
32129 prosthetic-orthotic technician	65229 psychic reader
32129 prosthetist assistant	65229 psychic
32129 prosthetist	41301 psychoeducational consultant
32129 prosthetist-orthotist	41301 psychoeducator
31110 prosthodontist	41409 psycholinguist
22112 protection coordinator - forestry	42201 psychological assistant
40010 protection services director - government services	31200 psychological associate
22310 protection technologist - electrical power system	40030 psychological services director
21101 protective coatings chemist	31200 psychologist
94219 protective earmuffs assembler	41403 psychology assistant (except university)
21310 protective relay engineer	30010 psychology director - health care
00012 protective services executive director	41200 psychology professor - university

12113 psychology research assistant (except university)	21210 public health statistician
41409 psychometrician	21120 public health unit supervisor
41409 psychometrist	41403 public housing officer
31100 psychopharmacologist	41403 public housing policy analyst
41301 psychotherapist	64201 public image consultant - personal consultants
11100 public accountant	10022 public information director
11100 public accountants chief	41407 public inquiries officer
11100 public accountants supervisor	12202 public liability underwriter - insurance
52113 public address (P.A.) operator	75201 public notice delivery person
52114 public address (P.A.) system announcer	14110 public opinion collector
22311 public address (P.A.) system installer and repairer	14110 public opinion interviewer
52113 public address (P.A.) system operator	12012 public opinion interviewers supervisor
12201 public adjuster - insurance	41403 public opinion survey researcher
41200 public administration professor - university	73301 public passenger transit driver
40010 public administrator - government services	11202 public relations agent
10022 public affairs director	64409 public relations clerk
11202 public affairs officer - Canadian Armed Forces	11202 public relations consultant
11202 public affairs officer	11202 public relations coordinator
31301 public and community health nurse	10022 public relations director
41403 public assistance adviser	10022 public relations manager
21120 public health and safety coordinator	11202 public relations officer
21110 public health bacteriologist	11202 public relations practitioner
31110 public health dentist	11202 public relations press agent
31121 public health dietitian	11202 public relations press secretary
40010 public health director	11202 public relations representative
21300 public health engineer	11202 public relations specialist
21120 public health inspector	41403 public rights coordinator
21120 public health inspectors supervisor	21120 public safety advisor
40010 public health municipal officer - government services	21120 public safety consultant
31301 public health nurse consultant	21120 public safety coordinator
31301 public health nurse	21120 public safety officer
40010 public health nursing educational director - government services	21120 public safety specialist
30010 public health nursing services director	64201 public speaking consultant
31300 public health nursing supervisor	13100 public trustee
31121 public health nutritionist	90011 public utilities manager
31102 public health physician	40030 public welfare director
41200 public health professor - university	40019 public works director
21120 public health safety inspector	21300 public works engineer
	82031 public works grounds maintenance labourer supervisor

82031 public works grounds maintenance worker supervisor	31100 pulmonary medicine specialist
22233 public works inspector - construction	31100 pulmonologist
75212 public works labourer	21320 pulp and paper chemical engineer
74205 public works maintenance equipment operator	21320 pulp and paper engineer
72021 public works maintenance equipment operators supervisor	95103 pulp and paper labourer
72021 public works road maintenance labourer supervisor	72405 pulp and paper machinery builder
40019 public works superintendent	22302 pulp and paper manufacturing technologist
14301 publication clerk	92014 pulp and paper mill foreman/woman
12012 publication clerks supervisor	90010 pulp and paper mill manager
64101 publication distributor - wholesale	64101 pulp and paper product sales representative
64101 publication sales representative - wholesale	94121 pulp and paper size maker
51110 publications editor	22302 pulp and paper technician
50011 publications manager	22302 pulp and paper technologist
11202 publicist	94121 pulp bleach liquor maker
10022 publicity administrator	94121 pulp cook
11202 publicity agent	94121 pulp dryer operator
11202 publicity coordinator	94121 pulp grader
10022 publicity director	94121 pulp maker
11202 publicity information officer	94121 pulp mill equipment operator
10022 publicity manager	92014 pulp mill foreman/woman
51111 publicity writer	94121 pulp mill machine operator
41210 public-speaking instructor	94121 pulp press tender
41210 public-speaking teacher	94121 pulp pressman/woman - pulp and paper
00015 publisher	92014 pulp processing foreman/woman - pulp and paper
64101 publisher's sales representative - wholesale	94121 pulp refiner operator - pulp and paper
14301 publishing clerk	94121 pulp tester - pulp and paper
50011 publishing house director	92014 pulp testers foreman/woman
00015 publishing house general manager	94121 pulp washer operator - pulp and paper
50011 publishing manager	94121 pulp washer operator
94140 puff gun operator - food and beverage processing	94121 pulp washer
94140 puffed cereal maker	94140 pulper tender - food and beverage processing
94103 pug mill operator - clay products	93102 pulping control operator
41100 puisne judge	92014 pulping foreman/woman - pulp and paper
94112 puller-laster - rubber products manufacturing	93102 pulping group operator - pulp and paper
73311 pullman conductor	93102 pulping technician
31100 pulmonary disease specialist	95103 pulp-log recleaner
32103 pulmonary function technologist	94103 pulpstone builder
31100 pulmonary medicine physician	95103 pulp-washer helper
	12102 pulpwood buyer
	84110 pulpwood cutter

83110 pulpwood harvester operator	10012 purchasing chief
85120 pulpwood piler	14403 purchasing clerk assistant
94121 pulpwood products tester	14403 purchasing clerk
94110 pulverizer and sifter tender - chemical processing	12013 purchasing clerks supervisor
73400 pulvimixer operator	12102 purchasing contracts administrator
64101 pump and compressor sales representative - wholesale	12102 purchasing contracts analyst
65101 pump attendant - service station	10012 purchasing contracts director
72400 pump mechanic and repairer	12102 purchasing contracts management officer
65101 pump operator - service station	10012 purchasing contracts manager
74201 pump seaman/woman	12102 purchasing contracts negotiator
93101 pump station operator - pipelines	12102 purchasing contracts officer
92101 pump station operator - water treatment	14403 purchasing control clerk
72400 pump systems installer	10012 purchasing director
84101 pumper - oil field services	14402 purchasing expediter
84101 pumper operator - oil field services	10012 purchasing manager
92101 pumphouse operator - water treatment	12102 purchasing officer
92011 pumping and blending foreman/woman - chemical processing	12102 purchasing supervisor
92011 pumping and pipeline equipment operators foreman/woman	12102 purchasing-services contracts negotiator
92011 pumping station foreman/woman	93101 purification operator - chemical processing
93101 pumping station operator	94100 purification operator - zinc oxide leach
75119 pump-installer and repairer helper	94140 purifier operator - food and beverage processing
74201 pumpman/woman - ships	93100 purity control operator - zinc leaching
94105 punch and shear machine operator - metal fabrication	83121 purse seine fisherman/woman
95101 punch press helper - metal products manufacturing	64311 purser - air transportation
94105 punch press operator - metal fabrication	64311 purser - water transport
94112 punch press operator - rubber products manufacturing	41210 pursers instructor
94105 punch press operator	95109 putty applicator - furniture and fixtures manufacturing
94105 punch press setter - metalworking	53124 pyrographer
94105 puncher and shearer - metal products manufacturing	21322 pyrometallurgical engineer
55109 puppeteer	21109 pyrometallurgist
14403 purchase order clerk	94219 pyrotechnics assembler
94219 purchased metal parts inspector	
12102 purchaser	Q
12102 purchasing agent	85102 quahog digger
13201 purchasing and inventory management coordinator	13200 qualified customs broker
	22230 qualified operator - non-destructive testing
	21321 quality assurance (QA) engineer
	22222 quality assurance analyst - information systems
	20010 quality assurance engineering manager

94104 quality assurance inspector - steel mill	75110 quarry dump attendant
20011 quality assurance manager - cannabis	82020 quarry foreman/woman
22231 quality assurance officer	75110 quarry labourer
22302 quality assurance technologist	80010 quarry manager
22222 quality assurance tester - information systems	82020 quarry supervisor
94143 quality control checker - food and beverage processing	80010 quarrying manager
21101 quality control chemist	80010 quarrying operations manager
20011 quality control director - chemistry	74201 quartermaster
21321 quality control engineer	94103 quartz boat builder - stone products
20010 quality control engineering manager	94201 quartz crystal etcher and plater - electronic equipment manufacturing
72010 quality control foreman/woman - metal machining	94202 quartz lamp assembler
92015 quality control foreman/woman - textiles	94103 quartzware fabricator - stone products
94212 quality control inspector - plastic products manufacturing	21102 quaternarist
94133 quality control inspector - textiles	21102 quaternary scientist
94211 quality control inspector - wood products manufacturing	21102 quaternary specialist
20011 quality control manager - pharmaceutical products	41101 Quebec notary
92013 quality control supervisor - rubber and plastic products manufacturing	51114 Quebec Sign Language (LSQ) interpreter
22100 quality control technician - cannabis	42200 Queen's Bench registrar
22100 quality control technician - chemical processing	41101 Queen's Counsel
22100 quality control technician - chemistry	94100 quenching car operator
22100 quality control technician - food processing	92010 quenching foreman/woman - mineral and metal processing
22302 quality control technician (except chemical)	92010 quenching foreman/woman - primary metal processing
22100 quality control technologist - chemical processing	94150 quick print machine operator
22100 quality control technologist - food processing	94153 quick print machine tender - photographic processing
22302 quality control technologist - industrial engineering	94130 quill winder - textile manufacturing
22302 quality control technologist (except chemical)	94130 quiller - textile manufacturing
94133 quality control tester - textiles	72400 quiller machine fixer - textile manufacturing
94133 quality controller - textiles	72400 quiller setter - textile manufacturing
90010 quality-control services manager	72400 quilter fixer - textile manufacturing
21211 quantitative analyst	72400 quilter mechanic - textile manufacturing
41409 quantitative historian	72400 quilter setter-fixer - textile manufacturing
22303 quantity surveyor - construction	92015 quilting foreman/woman - textile processing
22303 quantity surveyor-estimator	72400 quilting machine fixer - textile manufacturing
21120 quarantine officer - public health	72400 quilting machine mechanic - textile manufacturing
73402 quarry driller	94131 quilting machine operator
	72400 quilting machine setter-fixer - textile manufacturing
	52114 quiz master - radio and television

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41302	rabbi	32121	radiation technologist - oncology
80020	rabbit breeder	32121	radiation therapist
53200	race car driver	32121	radiation therapists supervisor
41403	race relations officer	32121	radiation therapy chief technologist
72014	race track maintenance superintendent	32121	radiation therapy clinical coordinator
84120	racehorse exerciser	32121	radiation therapy clinical instructor
53202	racehorse judge - racetrack	32121	radiation therapy technical coordinator
84120	racehorse trainer	32121	radiation therapy technologist (RTT)
62029	racetrack betting supervisor	94201	radiation-detector assembler
65100	racetrack cashier	94200	radiator inspector - motor vehicle manufacturing
62029	racetrack clerk supervisor	74203	radiator installer - auto repair service
53202	racetrack clocker	94200	radiator installer - motor vehicle manufacturing
50012	racetrack director	94204	radiator maker
53110	racetrack finish photographer	72301	radiator pipe installer
53202	racetrack steward	72300	radiator plumber
53202	racetrack timer	64101	radio advertising time sales representative
53202	racing secretary and handicapper	22313	radio and electronic overhaul and repair mechanic - avionics
95102	rack loader	22313	radio and radar equipment inspector - avionics
72205	racker - telecommunications	22313	radio and radar equipment installer - avionics
94219	racquet stringer	21310	radio and television broadcasting design engineer
21310	radar engineer	21310	radio and television broadcasting systems design engineer
22310	radar systems technician	22311	radio and television service technician apprentice
22310	radar technician	22311	radio and television service technician
94201	radar-indicator inspector - electronic equipment manufacturing	52114	radio announcer
94201	radar-receiver assembler	94201	radio assembler and installer
94106	radial drill operator - metal machining	21100	radio astronomer
94106	radial drill press operator - metal machining	52112	radio broadcasting equipment operator supervisor
94106	radial drill set-up operator - metal machining	51113	radio commentator
94112	radial tire builder	22313	radio communication equipment repairer - avionics
94124	radial-arm saw operator - woodworking	22311	radio communication equipment repairer
21100	radiation biophysicist	22313	radio communication equipment repairman/woman - avionics
22232	radiation monitor	51120	radio director
31100	radiation oncologist	14404	radio dispatcher
32121	radiation oncology simulator technologist	22310	radio frequency technologist
32121	radiation oncology technician	52114	radio host/hostess
32121	radiation oncology technologist	22311	radio installation and repair technician
22232	radiation surveyor		
32121	radiation technologist - cancer therapy		

22231 radio interference investigator	72205 radiotelephone installer and repairer
22311 radio maintenance technician	14404 radio-telephone operator
52119 radio music program planner	32121 radiotherapy technician
14404 radio operator	32121 radiotherapy technologist
51120 radio producer	94212 radome finisher - plastic manufacturing
52119 radio program planner	64322 rafting guide
50011 radio programming manager	95103 rag checker - pulp and paper
52113 radio recorder	95103 rag sorter - pulp and paper
22311 radio repair supervisor	95105 rag sorter and cutter - textile processing
22311 radio repairer	94121 rag stock bleacher
21310 radio research engineer	42204 ragi
51113 radio researcher	72500 rail crane operator
00014 radio station general manager	73200 rail fence builder
50011 radio station manager	74200 rail grinder - railway
50011 radio station operations director	75211 rail lubricator
21311 radio systems engineer	70020 rail operations superintendent
52113 radio technician	74200 rail sander
12102 radio time buyer	74200 rail saw operator - railway
51111 radio writer	74200 rail saw operator
72106 radio-frequency welder	72604 rail traffic controller
22230 radiographic technician - non-destructive testing	72020 rail transport equipment repair foreman/woman
32121 radiographic technologist	72020 rail transport equipment repairers foreman/woman
22230 radiographic tester	70020 rail transport manager
32121 radiography chief technologist	21300 rail transportation traffic engineer
32121 radiography clinical coordinator	72403 rail vehicle mechanic
32121 radiography clinical instructor	74200 rail-aligner operator - railway
32121 radiography supervisor	72403 railcar mechanic apprentice
32121 radiography technical coordinator	74200 rail-grinder operator - railway
32121 radiography technical director	74200 rail-lifter operator - railway
32121 radiography technologist	12201 railroad claims adjuster - insurance
32121 radiography technologists supervisor	00011 railroad commissioner
32121 radioisotope technician	22231 railway accident investigation officer
32121 radioisotope technologist	72301 railway car and locomotive pipefitter
32121 radiological technician	94204 railway car assembler
32121 radiological technologist	72403 railway car brake inspector
31100 radiologist - Canadian Armed Forces	65311 railway car cleaner
31100 radiologist	74200 railway car controller - railway yard
33109 radiology aide	75211 railway car decal applier
32121 radiology technologist	74200 railway car distributor
31100 radio-oncologist	74200 railway car greaser
31100 radio-oncology specialist	

72020 railway car inspection foreman/woman	72403 railway equipment inspector
72403 railway car inspector	72020 railway equipment maintenance inspectors foreman/woman
72020 railway car inspectors foreman/woman	74200 railway equipment operator
94213 railway car letterer	53100 railway equipment restoration technician - museum
94204 railway car liner	64313 railway express agent
75101 railway car loader	70020 railway freight manager
74200 railway car lubricating specialist	72021 railway gang foreman/woman
74200 railway car lubricator	42100 railway guard - police
72020 railway car maintenance foreman/woman	73310 railway hostler
72020 railway car maintenance supervisor	22231 railway inspector
74200 railway car oiler	41310 railway investigator - police
94213 railway car painter and letterer	75211 railway labourer
90010 railway car production manager	74200 railway line inspector
72500 railway car puller - crane	73310 railway locomotive engineer
72020 railway car repair foreman/woman	74200 railway maintenance equipment operator
72020 railway car repairer foreman/woman	70020 railway manager
75119 railway car repairer helper	64313 railway passenger agent
72020 railway car repairer supervisor	70020 railway passenger operations manager
94213 railway car stenciller	40040 railway police chief
94204 railway car trimmer	42100 railway police constable
63221 railway car upholsterer	42100 railway police officer
94213 railway car varnisher	40040 railway police supervisor
75211 railway car weigher	64313 railway reservations clerk
72403 railway car wheel and axle inspector	73209 railway rolling stock air valve repairer
72403 railway carman/woman apprentice	72020 railway rolling stock assembly foreman/woman
72403 railway carman/woman inspector	72310 railway rolling stock carpenter
72403 railway carman/woman	72310 railway rolling stock joiner
72405 railway coach fitter	72020 railway rolling stock manufacturing foreman/woman
72403 railway coach repairer	90010 railway rolling stock production manager
73311 railway conductor	72021 railway section foreman/woman
72021 railway construction and maintenance superintendent	72201 railway signal installer
63200 railway cook	72201 railway signal maintainer
62020 railway dining car food service supervisor	74200 railway signalman/woman
70020 railway division superintendent	42100 railway special agent - police
73310 railway engineer trainee	62022 railway station clerk supervisor
73310 railway engineer	21203 railway surveyor
62100 railway equipment and supplies technical sales specialist	74200 railway tank car servicer
62100 railway equipment and supplies technical salesperson	22300 railway technician
72020 railway equipment department supervisor	74200 railway tie inspector

74200 railway track inspector	22112 range conservationist
75211 railway track labourer	22112 range manager
72021 railway track laying foreman/woman	14405 rapid transit scheduler
74200 railway track maintenance equipment operator	14200 rate clerk
72021 railway track maintenance foreman/woman	14200 rate reviewer
75211 railway track maintenance labourer	80010 raw materials production manager
74200 railway track maintenance worker	94130 raw stock dryer - textile manufacturing
74200 railway track patroller	94130 raw stock dyer - textile manufacturing
74200 railway track repairer	75101 reach truck operator
72021 railway track section boss	75210 reaction ferry operator
74200 railway track tamper operator	21100 reactor physicist
74200 railway trackman/woman	53121 reader - performing arts
74200 railway train engine maintenance worker	14301 reader
70020 railway transport area manager	41221 reading clinician - elementary school
70020 railway transport general agent	41220 reading clinician - secondary school
72023 railway transport operating support foreman/woman	73300 ready-mix driver - construction
72023 railway transport operations foreman/woman	73300 ready-mix truck driver
72023 railway transport operations supervisor	75101 ready-mix truck loader
75211 railway yard labourer	64200 ready-to-wear garment tailor
72021 railwaymen/women foreman/woman	94110 reagent mixer - cellulose film manufacturing
74200 railway-tie-injector operator	94100 reagent tender - primary metal processing
84100 raise borer helper - underground mining	95100 reagent tender helper - primary metal processing
83100 raise boring machine operator - underground mining	13111 real estate administrative assistant
83100 raise driller - underground mining	63101 real estate agency representative
84100 raise miner helper	63101 real estate agent supervisor
83100 raise miner	63101 real estate agent
83100 raiseman/woman	10020 real estate agents managing supervisor
94103 ram press operator - clay products	12203 real estate analyst
74202 ramp agent - air transport	12203 real estate appraisal technician
74202 ramp attendant - air transport	12203 real estate appraiser
74202 ramp lead hand - air transport	12203 real estate assessor
70020 ramp manager - airline	10020 real estate branch manager
74202 ramp services supervisor - airport	10020 real estate broker
74202 ramp station attendant - air transport	14201 real estate clerk
82030 ranch foreman/woman	10020 real estate developer
85100 ranch hand	42200 real estate law clerk
85100 ranch worker	41101 real estate lawyer
80020 rancher	00012 real estate management company executive director
80020 ranchman/woman	10020 real estate national sales manager

10020 real estate office manager	94112 reclaim millman/woman - rubber products manufacturing
42200 real estate paralegal	94112 reclaimed rubber inspector
13101 real estate rental agent	72999 reclamation diver
63101 real estate sales consultant	21300 reclamation engineer
10020 real estate sales district manager	92010 reclamation foreman/woman - primary metal and mineral products processing
10020 real estate sales manager	14201 reconciliation clerk - financial sector
10020 real estate sales managing director	43204 reconnaissance patrolman
63101 real estate sales representative	14300 record library assistant
63101 real estate sales supervisor	51120 record producer
63101 real estate salesperson	64100 record shop salesperson
13111 real estate secretary	60020 record store manager
10020 real estate service manager	64100 record store salesperson
63101 realtor	51122 recording artist
14201 realty clerk	53111 recording assistant - recording studio
40011 realty taxation manager	14402 recording clerk - broadcasting
40042 rear admiral	51120 recording director
94130 rebeamer - textile manufacturing	52113 recording engineer
94110 recausticizer tender	13110 recording secretary
94110 recausticizer	52113 recording studio technician
00011 receiver general for Canada	53100 recording technician - museum
14400 receiver	64101 recordings contact person
65220 receiving barn custodian	14300 recordings library clerk
14400 receiving checker	10019 records administrator
14400 receiving clerk for returned merchandise	13100 records analyst - access to information
14400 receiving clerk	14100 records classification clerk
12013 receiving clerks supervisor	12112 records classifier
14400 receiving room clerk	14100 records clerk
12013 receiving supervisor	12010 records clerks supervisor
64314 reception clerk - hotel	12112 records digitizing technician
14101 reception clerk	11201 records filing systems analysts supervisor
14101 reception desk clerk (except hotel)	14100 records filing-system clerk
14101 receptionist	14100 records management clerk
14101 receptionist-clerk	10019 records management services manager
12010 receptionists and hostesses supervisor	12010 records management services supervisor
12010 receptionists supervisor	11201 records management specialist
14101 receptionist-secretary	12010 records management supervisor
14101 receptionist-switchboard operator	11201 records management systems analyst
14101 receptionist-telephone operator	12112 records management technician
14101 receptionist-typist	11201 records manager - business services
51122 recital singer	

10019 records manager	54100 recreation program leader
12010 records office supervisor	41406 recreation programmer
14100 records support clerk	50012 recreation programs director
12112 records technician	50012 recreation programs manager
94110 recovery equipment operator - chemical processing	50012 recreation service director
94100 recovery equipment operator - primary metal and mineral processing	50012 recreation service manager
94121 recovery operator - pulp and paper	41406 recreation services coordinator
95103 recovery plant helper - pulp and paper	73200 recreation structure erector
93102 recovery plant operator - pulp and paper	41406 recreation supervisor
31301 recovery room nurse	54100 recreation technician
94110 recovery vat tender	33109 recreation therapist aide
50012 recreation administrator in chief	32109 recreation therapy assistant
50012 recreation administrator	72423 recreation vehicle apprentice mechanic
33109 recreation aide - health services	94204 recreation vehicle assembler
41406 recreation analyst	72423 recreation vehicle mechanic
41406 recreation and leisure programs supervisor	72423 recreation vehicle repairer
41406 recreation and leisure supervisor	72423 recreation vehicle service technician
65211 recreation and sports attendant	72423 recreation vehicle technician
50012 recreation and sports director	41406 recreation, sports or fitness policy analyst
11202 recreation association information officer	41406 recreational activities consultant
65211 recreation attendant	41406 recreational activities coordinator
50012 recreation centre director	41406 recreational activities counsellor
50012 recreation centre sports director	41406 recreational activities program coordinator
50012 recreation chief administrator	00013 recreational association executive director
41406 recreation consultant	65211 recreational camp attendant
41406 recreation coordinator	60031 recreational campground manager
41406 recreation counsellor	73200 recreational equipment installer
50012 recreation director	64100 recreational equipment rental-shop attendant
73200 recreation equipment erector	64100 recreational equipment salesperson - retail
50012 recreation establishment director	65211 recreational facility attendant
50012 recreation establishment managing supervisor	41210 recreational leadership teacher
70012 recreation facility manager	41406 recreational programs coordinator
50012 recreation head administrator	31204 recreational therapist
54100 recreation instructor	33109 recreational therapy aide
54100 recreation leader	41406 recreationist - geriatrics
50012 recreation manager	41406 recreologist
65211 recreation park attendant	41200 recreology professor - university
21202 recreation planner	12101 recruiter - employment
41406 recreation policy analyst	10011 recruiting director
	10011 recruiting manager
	12101 recruiting officer

42100 recruitment and training officer - police	14300 reference clerk - library
12101 recruitment assistant	14300 reference clerk
12101 recruitment consultant	51100 reference librarian
12101 recruitment officer	90011 refined petroleum products distribution manager
12101 recruitment specialist	94121 refiner - pulp and paper
92100 rectifier operator - electrical power systems	95100 refiner helper
00013 rector - education	94121 refiner man/woman - pulp and paper
75101 recycled paper handler	94112 refiner mill tender - rubber products manufacturing
41400 recycling coordinator - residuals management	94121 refiner operator - pulp and paper
41400 recycling program coordinator	21320 refinery engineer
64101 recycling sales representative	22233 refinery equipment inspector
74205 recycling truck driver - public works	40041 refinery fire chief
74205 recycling truck driver	95100 refinery helper - primary metal and mineral products processing
30010 Red Cross first aid director	95100 refinery labourer
31301 Red Cross nurse	93101 refinery operator
94100 red mud thickener tender	93100 refinery process operator - primary metal processing
65210 redcap	93101 refinery process technician
94130 redraw operator - textile manufacturing	90010 refinery superintendent
94140 redryer tender - tobacco processing	92011 refinery unit foreman/woman
94140 redrying machine operator - tobacco processing	21322 refining and metalworking engineer
92010 reduction plant foreman/woman - primary metal and mineral products processing	94219 reflective sign fabricator
95105 reed cleaner - textile processing	22230 reflectoscope tester
72400 reed fixer - textile manufacturing	32209 reflexologist therapist
72400 reed setter - textile manufacturing	32209 reflexologist
94140 reel oven operator - food and beverage processing	43201 reformatory guard
95109 reel replacer press assistant	72320 refractory brick repairer-mason
94130 reel tender - textile manufacturing	72014 refractory bricklayer foreman/woman
94130 reel winder - textile manufacturing	75110 refractory bricklayer helper
95101 reel wrapper - wire products manufacturing	72320 refractory bricklayer
85111 reeled tubing helper - oil field services	72320 refractory builder
84101 reeled tubing operator - oil field services	72320 refractory mason
94130 reeler - textile manufacturing	94103 refractory mortar mixer
94212 reeler and cutter - plastic manufacturing	94103 refractory tamp moulder - clay products
94100 reeling machine operator - primary metal processing	94202 refrigerant gas leak tester
94130 reeling machine operator - textile manufacturing	72321 refrigeration and air conditioning equipment insulator
00010 reeve	72014 refrigeration and air conditioning equipment insulators foreman/woman
53202 referee	72402 refrigeration and air conditioning mechanic (non-construction)
14300 reference aide - library	
14300 reference assistant - library	

72402 refrigeration and air conditioning mechanic apprentice	41101 regional Crown prosecutor
72402 refrigeration and air conditioning mechanic	41402 regional development analyst
72402 refrigeration and mechanical technician	41402 regional development officer
72020 refrigeration contractor	41402 regional economic development agency officer
21301 refrigeration engineer	40011 regional economic services manager - government services
94202 refrigeration equipment gas charger	41401 regional economist
72020 refrigeration foreman/woman	11101 regional financial analyst
72402 refrigeration mechanic apprentice	21111 regional forest inventory officer
75119 refrigeration mechanic helper	41402 regional industrial development officer
72402 refrigeration mechanic	21111 regional inventory officer - forestry
72020 refrigeration mechanics foreman/woman	50010 regional library director
92011 refrigeration plant foreman/woman	60010 regional manager - sales
95102 refrigeration plant operator helper	10030 regional manager - telecommunications system
92100 refrigeration plant operator	00010 regional municipality chair
72402 refrigeration system installer	00011 regional municipality general director
22212 refrigeration systems draftsman	53100 regional museum technician
72402 refrigeration technician	40010 regional pay centre chief - employment insurance
94202 refrigeration unit inspector	21202 regional planner
95109 refrigerator crater	41400 regional recycling and waste reduction program coordinator
94202 refrigerator inspector - electrical appliance manufacturing	60010 regional sales director
72421 refrigerator repairer	60010 regional sales manager
72421 refrigerator servicer	64101 regional sales representative - wholesale
41403 refugee affairs program officer	40021 regional schools superintendent
41407 refugee board member	13100 regional services chief
74205 refuse truck driver - public works	70021 regional services manager - postal and courier services
10019 regional administrative manager	40021 regional superintendent - schools
41101 regional attorney	40011 regional taxation manager
10021 regional bank manager	52112 regional transmitter technician
12012 regional census manager	73300 regional truck driver
12104 regional claims and benefits officer - employment insurance	00012 regional vice-president - financial, communications and other business services
10021 regional collection manager	00015 regional vice-president - goods production, utilities, transportation and construction
41407 regional committee officer - government services	00013 regional vice-president - health, education, social and community services and membership organizations
10022 regional communications director	00014 regional vice-president - trade, broadcasting and other services
10010 regional controller - financial services	32200 registered acupuncture practitioner
40040 regional coroner	32200 registered acupuncturist
40030 regional correctional administrator	
41407 regional council officer	
10021 regional credit manager	

32104 registered animal health technologist (RAHT)	31301 registered nurse - telehealth
32104 registered animal health technologist	31301 registered nurse (R.N.)
22210 registered building technician	32101 registered nursing assistant (R.N.A.)
22210 registered building technologist	31121 registered nutritionist
32123 registered cardiology technologist	41400 registered occupational hygienist
33102 registered care aide	33109 registered orthopedic technologist
33109 registered central service technician - medical	32129 registered orthotic technician (R.T.O.)
41301 registered clinical counsellor	41400 registered patent agent
31301 registered community health nurse	31120 registered pharmacist
41301 registered dance therapist (DTR)	32124 registered pharmacy technician
41301 registered dance therapist	31202 registered physical therapist
33100 registered dental assistant	31202 registered physiotherapist
32111 registered dental hygienist	32101 registered practical nurse (R.P.N.)
32112 registered dental technician (RDT)	31121 registered professional dietitian
32112 registered dental technologist (RDT)	21111 registered professional forester (RPF)
32111 registered dental therapist	31121 registered professional nutritionist
63211 registered dermal therapist	32129 registered prosthetic and orthotic technician (R.T.P.O.)
32122 registered diagnostic cardiac sonographer	32129 registered prosthetic technician (R.T.P.)
32122 registered diagnostic medical sonographer (RDMS)	31301 registered psychiatric nurse (R.P.N.)
31121 registered dietitian (RD)	31200 registered psychologist
31121 registered dietitian-nutritionist (RDN)	31301 registered public health nurse
32123 registered electrocardiography technician	32121 registered radiology technologist
32102 registered emergency paramedic	11103 registered representatives supervisor
41301 registered family therapist	32103 registered respiratory care practitioner
52120 registered graphic designer (RGD)	32103 registered respiratory therapist (RRT)
31301 registered industrial nurse	42201 registered social service worker
52121 registered interior designer	41300 registered social worker
11103 registered investment representative	32120 registered technologist - medical
31204 registered kinesiologist	32121 registered technologist in nuclear medicine (RTNM)
64401 registered mail clerk	32121 registered technologist in radiation therapy
41301 registered marriage and family therapist	32121 registered technologist in radiography (RTR)
41301 registered marriage therapist	42200 registered trademark agent
32201 registered massage practitioner	32200 registered traditional Chinese medicine herbalist
32201 registered massage therapist (RMT)	32200 registered traditional Chinese medicine practitioner
32120 registered medical technologist	32122 registered ultrasound technologist
31303 registered midwife (RM)	32104 registered veterinary technician (RVT)
31301 registered nurse - call centre	40020 registrar - college or university
31301 registered nurse - contact centre	10019 registrar - courts
31301 registered nurse - independent practice	
31301 registered nurse - public and community health	

14301 registrar clerk	22233 reinforced concrete inspector
42200 registrar of bankruptcy	94107 reinforcing cage maker
42200 registrar of deeds	94107 reinforcing cage winding machine operator
42200 registrar of probate	72105 reinforcing ironworker
42200 registrar of wills	72105 reinforcing rodworker
14301 registration clerk	72105 reinforcing steel ironworker
12010 registration unit supervisor	75110 reinforcing wire mesh worker
14301 registry clerk	11100 reinsurance analyst
42200 registry officer - marriages	12202 reinsurance underwriter - insurance
12010 registry supervisor	95109 relaster - shoe manufacturing
32124 regulated pharmacy technician	72205 relay adjuster - telecommunications
72205 regulator and tester - telecommunications	51114 relay interpreter
11201 regulatory affairs analyst	72205 relay tester - telecommunications
11201 regulatory affairs associate	72202 relay tester and maintainer - electrical power system
11201 regulatory affairs officer	72202 relay tester and repairer - electrical power system
11201 regulatory affairs specialist	22301 reliability technician
11201 regulatory compliance officer	14100 relief clerk
11201 regulatory compliance specialist	72600 relief pilot
21110 regulatory toxicologist	82020 relieving surface foreman/woman - mining
33109 rehabilitation aide	41200 religion professor - university
70011 rehabilitation and renovation specialist	40030 religious education director
32109 rehabilitation assistant	41220 religious education high school teacher
41321 rehabilitation counsellor	42204 religious education worker
42203 rehabilitation instructor for persons who are blind	42204 religious superior - religious community
42203 rehabilitation instructor of persons with a visual impairment	42204 religious superior/mother superior
31300 rehabilitation nursing supervisor	94140 relish maker - food and beverage processing
42201 rehabilitation officer - social services	13100 relocation commissioner
40030 rehabilitation residential services director	41321 relocation consultant
42201 rehabilitation service worker	41321 relocation counsellor
30010 rehabilitation services director - medical services	43100 remedial education aide
30010 rehabilitation services director	31204 remedial gymnast
31100 rehabilitation specialist	31204 remedial gymnastics teacher (except education)
42203 rehabilitation teacher for persons who are blind	31204 remedial gymnasts' supervisor
42203 rehabilitation teacher of persons with a visual impairment	32209 remedial herbalist
42203 rehabilitation teacher	32209 remedial herbologist
42201 rehabilitation worker - social services	41210 remedial teacher - college level
51122 rehearsal musician	41221 remedial teacher - elementary school
65229 Reiki master	41220 remedial teacher - secondary school
	31204 remedial therapist

14200 remittance accounts clerk	94120 resawyer - sawmill
52119 remote broadcasting coordinator	40020 research administrator - university or college
72999 remote operated vehicle (ROV) operator	20011 research and development manager
22214 remote sensing (RS) application specialist	31203 research and development occupational therapist
22214 remote sensing (RS) technician	41409 research anthropologist
22214 remote sensing (RS) technologist	41409 research archaeologist
21300 remote sensing engineer	51102 research archivist
21102 remote sensing geologist	22112 research assistant - forestry
72600 remote sensing pilot	12113 research assistant - generalist (except university)
21100 remote sensing research scientist	12113 research assistant (except post-secondary)
65329 remotely piloted aircraft system pilot	31112 research audiologist
33101 renal technician	21110 research biologist
92012 rendering plant worker foreman/woman	21320 research chemical engineer
92012 rendering plant workers foreman/woman - meat packing	21101 research chemist
52111 rendering specialist	31121 research dietitian
14201 renewal clerk - financial sector	20011 research director - forestry
75110 renovation carpenter helper	20011 research director - manufacturing
72310 renovation carpenter	20011 research director - mining
70011 renovation contractor	40020 research director - university or college
64100 rental agent - retail	21310 research engineer - nanoelectronics
64100 rental clerk - retail	21111 research forester
64100 rental counter representative	41403 research home economist
62010 rental service supervisor	22310 research laboratory equipment repairer
13101 rentals agent	21210 research mathematician
72203 repair lineman/woman - electric power systems	21109 research metallurgist
72204 repair lineman/woman - telecommunications	31121 research nutritionist
75210 repair ship owner-operator	31203 research occupational therapist
22310 repairer - electronics production	41407 research officer - federal and intergovernmental affairs
72401 repairer mechanic	31202 research physical therapist
40010 repayment and benefits control chief - employment insurance	31202 research physiotherapist
72205 repeater installer - telecommunications	41200 research professor - university
72205 repeater tester and adjuster - telecommunications	31200 research psychologist
51113 reporter	21109 research scientist - ceramics
53124 reproduction woodcarver	21109 research scientist - composite materials
94121 repulper operator	12113 research support officer
52113 re-recording mixer	31103 research veterinarian
94120 resaw operator - sawmill	64312 reservation agent - airline
94124 resaw operator - woodworking	64310 reservation agent - travel agency
94120 resaw operator	64101 reservation agent - wholesale

64312 reservation clerk - airline	42201 residential counsellor - group home
64312 reservation sales agent - airline	73200 residential door installer
64310 reservation sales agent - travel agency	72011 residential electrician supervisor
64313 reservations agent - cruise line	62100 residential energy sales adviser
64313 reservations agent - railway	73113 residential floor and wall covering installer
64313 reservations agent (except airline)	70011 residential home builder
64313 reservations clerk - cruise line	70011 residential homes contractor
64314 reservations clerk - hotel	72321 residential insulation installer
64313 reservations clerk - wholesale travel	72420 residential oil burner installer and servicer
64313 reservations clerk (except airline)	72420 residential oil burner mechanic
60031 reservations manager	73112 residential painter
62022 reservations supervisor - airline	13101 residential property manager
62022 reservations supervisor - hotel	63101 residential real estate agent
62022 reservations supervisor - travel agency	63101 residential real estate salesperson
62022 reservations supervisor	70011 residential renovation contractor
13100 reserve administrator	73200 residential room air conditioner installer
14201 reserves calculation clerk - financial sector	73110 residential steep roofer
22101 reservoir engineering technician	73113 residential wall and floor covering installer
65310 residence cleaner	72200 residential wireman/woman
42201 residence coordinator - group home	94100 residual metal recoverer
33102 resident care aide - medical	94100 residue filter operator - zinc oxide leach
33102 resident companion - medical	73113 resilient floor installer
31102 resident physician	73113 resilient floor layer
31102 resident	72106 resistance brazer
72102 residential (low rise) sheet metal installer	72106 resistance seam welder
64410 residential alarm system specialist	72106 resistance welder tender
21200 residential architect	72106 resistance welder
65310 residential boarding-home cleaner	72106 resistance welder-setter
21200 residential building architect	72106 resistance welding machine setter
73110 residential building shingler	72106 resistance welding set-up man/woman
22210 residential buildings technologist	94201 resistor assembler - electronic equipment manufacturing
60040 residential cleaning service manager	94201 resistor machine feeder
72320 residential construction bricklayer	94201 resistor-processing equipment operator
00015 residential construction company president	60031 resort campground manager
72013 residential construction foreman/woman	60031 resort manager
70010 residential construction manager	41401 resource economist
73112 residential construction painter	51100 resource sharing and processing librarian
72300 residential construction plumber	22112 resource technician - forestry
70010 residential construction site manager	73209 respirator servicer and fitter
72013 residential construction supervisor	31301 respiratory care nurse
72200 residential construction wirer	

32103 respiratory care practitioner	64410 retail loss investigator
31100 respiratory disease specialist	64410 retail loss prevention officer
31301 respiratory nurse specialist	41210 retail management teacher
32103 respiratory technician	65202 retail meat cutter
32103 respiratory technologist	62101 retail merchandiser
32103 respiratory therapist	31120 retail pharmacist
32103 respiratory therapy chief	64100 retail sales associate
32103 respiratory therapy clinical instructor	64100 retail sales clerk
32103 respiratory therapy supervisor	60020 retail sales manager - e-commerce
31100 respirologist	60020 retail sales manager
33102 respite care aide	64100 retail sales representative
44101 respite worker - home support	62010 retail sales route supervisor
94130 respooler - textile manufacturing	64100 retail salesperson
65310 rest home cleaner	65102 retail shelf stocker
65310 rest room attendant	52121 retail space planner
65310 rest room cleaner	62010 retail store department head
60030 restaurant assistant manager	60020 retail store owner
65100 restaurant cashier	62010 retail store supervisor
00014 restaurant chain corporate controller	60020 retailer
63200 restaurant cook	74200 retarder operator - railway yard
65201 restaurant counter attendant	60031 retirement home manager
64101 restaurant equipment sales representative	94140 retort battery cook - food and beverage processing
64300 restaurant host/hostess	94103 retort tender - clay products
21120 restaurant inspector	94140 retort tender - food and beverage processing
60030 restaurant manager trainee	95102 retort unloader
60030 restaurant manager	53110 retoucher - photography
12102 restaurant purchasing agent	92013 retread tire inspection foreman/woman
12102 restaurant purchasing officer	92013 retread tire inspection supervisor - rubber products manufacturing
65200 restaurant waiter/waitress - formal service	41407 returning officer
60030 restaurateur - food services	42201 return-to-work coordinator - disability management
72310 restoration carpenter	42201 return-to-work facilitator - disability management
72999 restoration steeplejack	63221 re-upholsterer
72320 restoration stonemason	10010 revenue accounting and controls section chief
53100 restoration technician - museum	14200 revenue accounting clerk
32111 restorative dental hygienist	12104 revenue agent
94105 restrike hammer operator - metal forging	12104 revenue officer
63201 retail butcher	40011 revenue programs chief
62101 retail buyer	
60010 retail district manager	
00014 retail establishment president	
64410 retail investigator	

40011 revenue programs manager - government services	72106 rig welder
12104 revenue recovery officer	93200 rigger - aircraft assembly
94122 revenue stamp cutter	75110 rigger - construction
12104 revenue supervisor	53111 rigger - motion pictures, broadcasting and performing arts
93100 reverberatory furnace operator - primary metal processing	72204 rigger - telecommunications
41302 reverend	75110 rigger (except shipbuilding and aircraft assembly)
94100 reversing mill operator - primary metal processing	95101 rigger helper - shipbuilding
94100 reversing rolling mill operator - primary metal processing	75110 rigger's helper - construction
41101 review lawyer	52119 rigging gaffer
51114 reviser - translation	83110 rigging slinger - logging
94130 rewarper - textile manufacturing	43202 right of way inspector
94121 rewinder - pulp and paper	12102 right-of-way agent
94130 rewinder - textile manufacturing	94107 rimfire cartridge-priming machine tender
94121 rewinder tender - pulp and paper	94129 ring barker operator - wood processing
51111 rewriter	83100 ring drill operator
21100 rheologist	94130 ring frame operator - textile manufacturing
31100 rheumatologist	95102 ring furnace operator helper
31101 rhinologist	94110 ring furnace operator
94131 rib knitter - textiles	94219 ring mandrel worker
94131 ribbing machine operator - textiles	94105 ring mill operator - metal forging
94219 ribbon inker	94130 ring spinner - textile manufacturing
94219 ribbon winder	94219 ring stamper
94219 ribbon-looping machine tender	65211 rink attendant
94140 rice mill worker	65211 rink ice maker
94140 rice miller	65211 rink icer
65211 ride attendant	65211 rink supervisor
72400 ride mechanical technician	94130 rinser - textile manufacturing
53200 rider	94124 rip and groove machine tender - woodworking
54100 riding instructor	73400 ripper operator - heavy equipment
54100 riding master	75110 rip-rap placer
72201 rig electrician	94124 rip-saw grader-operator - woodworking
82021 rig manager - oil and gas drilling	94124 rip-saw matcher - woodworking
82021 rig manager	94120 rip-saw operator - sawmill
75119 rig mechanic helper	94103 rip-saw operator - stone products
72400 rig mechanic	94124 rip-saw operator - woodworking
83101 rig technician - driller	94103 rip-sawyer - stone products
84101 rig technician - motorhand	41401 risk management analyst
84101 rig technician - oil field services	94141 ritual slaughterer - meat packing plant
	21300 river and canal works engineer

85120 river driver	64409 road transport terminal attendant
72602 river pilot	83100 roadheader operator
72602 riverboat captain	84100 roadmaker - underground mining
94100 rivet heater - primary metal processing	72021 roadmaster - railway
94107 rivet maker	21310 roadway lighting design engineer
94107 rivet shaper	93100 roaster operator - primary metal processing
94219 rivet tester - boat assembly	94213 robotic paint sprayer attendant
94205 riveting machine operator - electrical equipment manufacturing	94213 robotic spray paint system attendant
94205 riveting machine tender - electrical equipment manufacturing	21301 robotics engineer
94200 road and roll tester	22301 robotics servicing technician
14100 road clerk	22301 robotics systems installer and repairer
72021 road construction boss	22301 robotics technician
72021 road construction foreman/woman	22301 robotics technologist
22233 road construction inspector	64322 rock climbing guide
72023 road foreman/woman - railway transport	92010 rock crusher foreman/woman - primary metal and mineral products processing
75110 road form setter	94100 rock crusher tender - primary metal and mineral products processing
73311 road freight brakeman/woman	92010 rock crushing foreman/woman - primary metal and mineral products processing
72021 road gang foreman/woman	85110 rock duster - underground mining
73400 road grader operator	22101 rock mechanics technician
22233 road grading inspector	65311 rock or brick sandblaster
14100 road maintenance clerk	51122 rock singer
72021 road maintenance foreman/woman	95109 rock splitter
75212 road maintenance worker - public works	94103 rock wool operator - stone products
75212 road maintenance worker	83100 rockbolter
75110 road mixer operator helper	22313 rocket components mechanic - avionics
73400 road mixer operator	94100 rod drawer - primary metal processing
22233 road paving inspector	95100 rod drawer helper - primary metal processing
73400 road planer operator	94100 rod mill operator - primary metal processing
73400 road roller operator	95100 rod puller and coiler - primary metal processing
22231 road safety inspector	94105 rod-bending machine operator - metal fabrication
74205 road snowplow operator - public works	80020 rodent breeder
75110 road spray truck helper	21120 rodent control inspector
22300 road technician	21120 rodent control officer
94200 road test mechanic - motor vehicle manufacturing	80020 rodent raiser
94200 road test mechanic	55109 rodeo driver
22300 road traffic technician	55109 rodeo horse rider
53100 road transport equipment restoration technician - museum	53200 rodeo performer
43202 road transport inspector	75119 rodman/woman - land surveying

72105 rodworker apprentice	72400 roller repairer - industrial equipment
32209 rolfer	94212 roller repairer - plastic manufacturing
32209 rolfing movement teacher	94112 roller repairer - rubber products manufacturing
94105 roll bender operator - metal products manufacturing	94212 roller repairman/woman - plastic manufacturing
94112 roll builder - rubber products manufacturing	94112 roller repairman/woman - rubber products manufacturing
72400 roll builder-repairer - rolling mills	94140 roller room equipment tender - food and beverage processing
92013 roll building foreman/woman - rubber manufacturing	54100 rollerblading instructor
92013 roll building supervisor - rubber products manufacturing	94100 roller-leveller operator
95105 roll carrier - textile processing	95103 rollerman/woman - wood processing
95104 roll changer - rubber manufacturing	54100 roller-skating instructor
94112 roll coverer - rubber products manufacturing	94105 roll-forming machine setter - metalworking
94121 roll finisher - paper	92010 rolling foreman/woman - primary metal processing
94105 roll forger	94105 rolling machine operator - metal forging
94112 roll grinder - rubber products manufacturing	94122 rolling machine tender - paper converting
95105 roll hauler - textile processing	95100 rolling mill catcher - primary metal processing
94105 roll operator - metal fabrication	93100 rolling mill control operator - primary metal processing
94111 roll operator - plastic manufacturing	93100 rolling mill control operator
94112 roll operator - rubber products manufacturing	92010 rolling mill foreman/woman - primary metal processing
94100 roll setter - primary metal processing	94100 rolling mill guide setter - metal processing
72400 roll setter - rolling mills	95100 rolling mill helper - primary metal processing
92010 roll shop operations coach - steel mill	95100 rolling mill labourer - primary metal processing
94122 roll slicing machine tender - paper converting	94100 rolling mill operator - mineral and metal processing
94100 roll table operator - primary metal processing	94100 rolling mill preparer - primary metal processing
94200 roll tester - motor vehicle manufacturing	95100 rolling mill worker - primary metal processing
94107 roll threader operator	95100 rolling mill worker
95105 roll turner - textile processing	94124 rolling pin maker - woodworking
94121 roll wrapper - paper	95105 roll-mat machine feeder - textile processing
94122 roll-cutting machine tender - paper converting	94122 roll-slitting machine tender - paper converting
94100 roller - primary metal processing	94100 roll-straightener operator - primary metal processing
94219 roller bearing assembly inspector	83100 roof bolter
95105 roller cleaner - textile processing	73112 roof painter
72400 roller coverer - textile manufacturing	72014 roof shinglers supervisor
94151 roller engraver - printing	72014 roof shingling supervisor
94130 roller machine tender - tannery	73110 roof tiler
94140 roller mill tender - food and beverage processing	73110 roofer and waterproofer
73400 roller operator	75110 roofer helper
94100 roller plate mill - primary metal processing	
94130 roller printer - textile manufacturing	

73110 roofer trainee	73401 rotary offset press operator
73110 roofer	73401 rotary press operator
72014 roofer-contractor (except metal roofs)	83100 rotary raise driller - underground mining
72014 roofers (except sheet metal roofs) foreman/woman	84100 rotary raise driller helper
72014 roofers and shinglers supervisor	94105 rotary shear operator - metal fabrication
72014 roofers foreman/woman	94204 rotary tiller assembler
72014 roofing contractor (except sheet metal roofs)	73400 rotary trencher operator
72014 roofing contractor	94106 rotary-head milling machine set-up operator
73110 roofing mechanic	94203 rotating field coil assembler - industrial electrical equipment
72014 roofing supervisor	94111 rotational moulding operator
65310 room attendant	62200 rotisserie chef
65310 room cleaner	94151 rotogravure cylinder technician
64314 room clerk - hotel	72022 rotogravure foreman/woman
64314 room clerk	73401 rotogravure press operator - printing
65210 room flipper	94130 rotogravure press operator - textile manufacturing
65210 room porter	72022 rotogravure press operators foreman/woman - printing
64314 room service clerk - hotel	94151 rotogravure press technician
65200 room service waiter/waitress	73401 rotogravure pressman/woman - printing
60031 rooming house keeper	72022 rotogravure pressmen/women foreman/woman - printing
60031 rooms division director	94101 Roto-lift operator - foundry
60031 rooms manager - accommodation services	73401 rotoprinter - printing
72999 rope access technician (RAT)	94203 rotor assembler - industrial electrical equipment
94130 rope coiler	94203 rotor coil former - industrial electrical equipment
72400 rope machine setter - textile manufacturing	94203 rotor core assembler - industrial electrical equipment
94131 rope maker - textiles	72404 rotorcraft aircraft maintenance engineer (AME)
65211 rope tow attendant	72404 rotorcraft maintenance engineer
65211 rope tow operator	72404 rotorcraft mechanical systems technician
94131 rope twister	92023 rototiller assembly foreman/woman
94131 rope-coiling machine tender - textiles	94213 rough benchwork spray painter
94131 rope-twisting machine tender	72310 rough carpenter
80021 rose grower	94124 rough mill operator - woodworking
94219 rotary brush-making machine operator	73112 rough painter - construction
84100 rotary driller helper - raise mining	94124 rough planer operator - woodworking
75110 rotary driller helper - water well	94213 rough spray painter - manufacturing
73402 rotary drilling machine operator - surface mining and quarrying	94100 roughing mill operator - metal processing
73402 rotary drilling machine operator	85111 roughneck - offshore drilling rig
93101 rotary furnace tender - chemical processing	85111 roughneck - oil and gas drilling
94100 rotary kiln operator - primary metal and mineral products processing	
94100 rotary kiln tender - primary metal processing	

85111 roughneck	94112 rubber cord cutter
64321 roulette croupier	94112 rubber cord splicer
72020 roundhouse foreman/woman - railway	94112 rubber curer - rubber products manufacturing
94152 rounding and backing machine operator - printing	94112 rubber cushion inspector
85111 roustabout - offshore drilling rig	94112 rubber cutter
85111 roustabout - oil and gas drilling	95104 rubber cutting machine feeder
85111 roustabout	94112 rubber drum builder
75211 route driver helper	94112 rubber fire hose maker
12013 route planning supervisor	94112 rubber flap curer
64409 route supply and return clerk	94112 rubber flap presser
94106 router operator - metal machining	94112 rubber foam cushion fabricator
94124 router operator - woodworking	94112 rubber footwear maker
94130 rover - textile manufacturing	92013 rubber footwear moulding supervisor
94130 roving frame tender - textile manufacturing	94112 rubber footwear parts buffer
94130 roving machine operator - textile manufacturing	94112 rubber footwear repairer
94133 roving weight gauger - textiles	94112 rubber footwear tread machine tender
53200 rower	94112 rubber fuel tank builder
40040 Royal Canadian Mounted Police (RCMP) commissioner	94112 rubber fuel tank finisher and repairer
42100 Royal Canadian Mounted Police (RCMP) officer	92013 rubber fuel tank foreman/woman
41407 royal commission officer	94112 rubber gasket cutter
50011 royalties manager - arts	94112 rubber gasket finisher
13200 royalty broker	94112 rubber gasket gluer
94103 rubber abrasive wheel grinder	94112 rubber gasket maker
94103 rubber abrasive wheel maker	92013 rubber gasket making foreman/woman
95104 rubber and canvas footwear dipper	94112 rubber gear moulder
94130 rubber and vinyl coater operator - textile manufacturing	94112 rubber glove maker
94112 rubber band cutter	94112 rubber golf ball cover treator
94112 rubber belt buffer	94112 rubber goods assembler
94112 rubber belt builder	94112 rubber goods cutter-finisher
94112 rubber belt cogger	92013 rubber goods dipping foreman/woman
94112 rubber belt maker	92013 rubber goods dipping supervisor
94112 rubber boot cutter	94112 rubber goods inspector
94112 rubber boot maker	94112 rubber goods machine operator
94112 rubber cement mixer	94112 rubber goods press operator
94112 rubber closure installer	94112 rubber goods repairer
94112 rubber coater	95104 rubber goods seamer
95104 rubber compound weigher	94112 rubber grinder
95104 rubber compounder	94112 rubber hose builder
94112 rubber cord assembler	92013 rubber hose building supervisor
	95104 rubber hose checker
	92013 rubber hose foreman/woman

92013 rubber hose inspection and testing foreman/woman	94112 rubber tubing splicer
94112 rubber lining installer	94112 rubber V-belt builder
95104 rubber manufacturing roll changer	94112 rubber V-belt coverer
94112 rubber mill operator	94112 rubber V-belt curer
94112 rubber moulder operator - rubber products manufacturing	94112 rubber V-belt finisher
94112 rubber press operator	94112 rubber V-belt skiver
94112 rubber processing machine operator	94130 rubber-coating and vinyl-coating machine operator - textile manufacturing
64101 rubber product sales representative - wholesale	95104 rubber-cutting machine feeder
94112 rubber products assembler	94112 rubber-cutting machine operator
92013 rubber products inspection supervisor	72400 rubberizing machine mechanic
92013 rubber products inspector foreman/woman	94112 rubber-strap-folding machine tender
94112 rubber products inspector	65311 rug cleaner
92013 rubber products inspectors supervisor	62029 rug cleaning foreman/woman - dry cleaning
92013 rubber products manufacturing foreman/woman	53123 rug designer
95104 rubber products manufacturing helper	73113 rug installer
94112 rubber products manufacturing inspector	94132 rug joiner
95104 rubber products manufacturing labourer	73113 rug layer
95104 rubber products manufacturing machine operator helper	94130 rug setter - textile manufacturing
92013 rubber products manufacturing supervisor	94132 rug sewer
94112 rubber products polisher	94112 rug underlay machine operator - rubber products manufacturing
95104 rubber products seamer	94131 rug weaver
94112 rubber products tester	94130 rug-coating machine operator
94112 rubber products trimmer	53124 rughooker
94112 rubber products washer-dryer	94130 rug-yarn-setting machine operator - textile manufacturing
90010 rubber products-manufacturing plant manager	94150 ruling machine operator - printing
94112 rubber roll grinding inspector	74102 runner - courier service
94112 rubber shoe cementer	70020 runway manager
94112 rubber shoe strap maker	72021 runway paving foreman/woman
94112 rubber slab inspector	40010 rural and Aboriginal housing regional manager - government services
94112 rubber snowtrack builder	40010 rural and Aboriginal housing services district director - government services
94112 rubber sole maker	40010 rural and Native housing regional manager - government services
94112 rubber splicer	40010 rural and Native housing services district director - government services
94112 rubber splitter - rubber products manufacturing	20011 rural development manager
94112 rubber sponge gasket assembler	41402 rural development officer
94112 rubber squeegee splicer	20011 rural development program manager
94112 rubber stamp maker	21110 rural ecologist
94112 rubber stripper and applier	
94112 rubber trimmer	
94112 rubber tube vulcanizer tender	

21310 rural electrification engineer
40010 rural housing programs director - government services
74101 rural mail carrier
41409 rural sociologist
72205 rural telephone maintainer
94213 rustproof coater - motor vehicle manufacturing
94213 rustproof sprayer - motor vehicle manufacturing

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95105 saddle cutter - leather products manufacturing
94124 saddle machine tender - woodworking
94152 saddle stitching machine operator - printing
94152 saddle stitching machine set-up operator - printing
72999 safe and vault installer-servicer
72999 safe and vault repairer
72999 safe and vault servicer
72999 safe and vault technician
72999 safe expert
72999 safe maker
21120 safety and sanitary inspector - public and environmental health
14201 safety deposit box clerk
62023 safety deposit box supervisor
94219 safety earmuffs assembler
21321 safety engineer
62100 safety equipment salesperson
94212 safety goggle assembly repairer - plastic products manufacturing
22233 safety officer - construction
22232 safety officer
42100 safety patrol officer - police
94107 safety pin machine set-up operator
22232 safety practitioner
94219 safety razor blade honer
94219 safety razor blade inspector
94219 safety razor blade maker
22232 safety supervisor - occupational health and safety
94103 saggar moulder - clay products
95100 saggar placer - clay products manufacturing
53125 sail lay-out and patternmaker
53125 sail maker
53200 sailboarder
94219 sailboat assembler
95105 sailcloth cutter - fabric products manufacturing
43109 sailing instructor
65201 salad and sandwich maker
65201 salad bar attendant
94140 salad dressing finisher
65201 salad maker
13102 salary administration officer
41401 salary analyst - economic policy
11200 salary analyst
10011 salary research and administration manager
60010 sales administrator
64100 sales advisor - retail
10022 sales agency marketing division director
64313 sales agent - railway
64101 sales agent - wholesale (non-technical)
21112 sales agronomist
41402 sales analyst
10022 sales and advertising manager
00014 sales and advertising vice-president - trade, broadcasting and other services
60010 sales and distribution manager
10022 sales and marketing director
10022 sales and marketing manager
11202 sales and promotions coordinator
10022 sales and publicity manager
64100 sales and rental clerk
64100 sales assistant
63102 sales associate - personal banking
64100 sales associate - retail
11100 sales auditor - finances
62100 sales broker - wholesale
62010 sales clerk supervisor
64100 sales clerk
64100 sales consultant - retail
64100 sales consultant - retirement homes
64101 sales consultant - wholesale (non-technical)
64101 sales coordinator - wholesale (non-technical)

10022 sales director - computer marketing development	62101 salvage buyer
60010 sales director (except retail and wholesale)	14401 salvage clerk
60010 sales district manager (except insurance and real estate)	60020 salvage dealer
62100 sales engineer	72999 salvage diver
64101 sales executive - wholesale (non-technical)	82020 salvage foreman/woman - mining
00014 sales general manager - trade, broadcasting and other services	94104 salvage glass inspector
64100 sales greeter	94201 salvage operator - electronic equipment manufacturing
60010 sales manager (except retail and wholesale)	94124 salvage sawyer - woodworking
63102 sales officer - financial	94121 salvage winder operator - papermaking
64100 sales order clerk	42204 Salvation Army captain
60010 sales planning manager	41302 Salvation Army commissioned officer
64100 sales promotion clerk	42204 Salvation Army field worker
10022 sales promotion manager	42204 Salvation Army worker
12011 sales records supervisor	94133 sample checker - textiles
64100 sales representative - retail	95109 sample clerk - fabric products
64101 sales representative - wholesale (non-technical)	14401 sample clerk - storage and warehousing
13110 sales secretary	14401 sample control clerk
21210 sales statistician	95105 sample cutter - fabric, fur and leather products manufacturing
62010 sales supervisor - retail	95105 sample cutter
62010 sales supervisor	75201 sample distributor
00015 sales vice-president - goods production, utilities, transportation and construction	94131 sample knitter
00015 sales vice-president - pulp and paper manufacturing	95102 sample preparer - chemical processing
00014 sales vice-president - trade, broadcasting and other services	94133 sample preparer - textiles
64100 salesperson - retail	94130 sample printer - textile manufacturing
64101 salesperson - wholesale (non-technical)	92015 sample room foreman/woman - fabric, fur and leather products manufacturing
80022 salmon farmer	92015 sample room foreman/woman - leather products
80022 salmon grower	95109 sample room worker
94100 salt compactor operator	94132 sample sewer
94100 salt compressor operator	95105 sample steamer
94100 salt crusher	94104 sample tester - primary metal and mineral products processing
92010 salt milling supervisor	94131 sample weaver
95106 salt packer	95102 sampler - chemical processing
94100 salt processor	95106 sampler - food and beverage processing
94100 salt refiner	94104 sampler - primary metal and mineral products processing
95100 salt screening labourer	94133 sampler - textiles
74205 salt truck operator - public works	92013 sampling supervisor - rubber and plastic products manufacturing
74205 salt truck operator	

22233 sand and gravel inspector - construction	94124 sash and door end matcher - woodworking
94101 sand control operator - foundry	94211 sash and door inspector - millwork manufacturing
94101 sand coremaker	94211 sash and door inspector
82020 sand fill boss - underground mining	94211 sash and door manufacturing repairman/woman
84100 sand fill man/woman - hydraulic stowing	92024 sash and door shop foreman/woman
84100 sand fill man/woman	21310 satellite antenna engineer
94101 sand floor moulder - foundry	73200 satellite antenna installer
94101 sand mill operator - foundry	22311 satellite antenna servicer
94101 sand moulder	21311 satellite data transmission engineer
94101 sand processing operator - foundry	73200 satellite dish installer
74205 sand spreader operator - public works	21310 satellite instrumentation engineer
74205 sand spreader operator	72205 satellite receiver installer
94101 sand system operator - foundry	72205 satellite receiving equipment installer
94103 sandblast operator - stone products	21230 satellite scientific telecommunications programmer
95101 sandblaster - metal products manufacturing	22310 satellite technician
95101 sandblaster operator - metal products manufacturing	22310 satellite technologist
65311 sandblaster	72205 satellite television service installation technician
65311 sandblasting building cleaner	22310 satellite verification technologist
95101 sandblasting machine tender - metal products manufacturing	94210 satin finisher - furniture finishing and refinishing
94129 sander operator - wood processing	95102 saturating machine feeder - chemical processing
94211 sanding inspector - woodworking	94110 saturating machine tender - chemical processing
94124 sanding machine feeder - woodworking	94130 saturator - textile manufacturing
94140 sanding machine tender - food and beverage processing	94110 saturator machine operator - chemical processing
74205 sanding truck operator - public works	62200 saucier
94101 sand-slinger operator - foundry	60040 sauna manager
65201 sandwich artist	65329 sauna room attendant
65201 sandwich maker	95106 sausage casing curer
65201 sandwich, salad and dessert maker	94140 sausage dryer and smoker
21120 sanitary department inspector - environmental health	95106 sausage linker - food and beverage processing
21300 sanitary engineer	94140 sausage maker
92011 sanitary service foreman/woman	95106 sausage tier - food and beverage processing
90011 sanitary sewer service manager	95106 sausage wrapper - food and beverage processing
21120 sanitary standards inspector	94140 sausage-peeling machine tender
21300 sanitation engineer	64400 savings account teller - financial services
75212 sanitation man/woman	14201 savings accounts clerk - financial sector
74205 sanitation truck driver	62023 savings accounts supervisor
75212 sanitation worker	62023 savings and credit service supervisor
55109 Santa Claus/Mrs. Claus	

62023 savings supervisor	22112 scaler - forestry
94107 saw blade miller	95100 scaler - primary metal processing
72999 saw doctor	22112 scaler technician - logging
72999 saw filer	22112 scalers supervisor
72999 saw fitter	22112 scaling coordinator - logging
72999 saw fitter-filer	83121 scallop dredger
94107 saw knife miller	94142 scallop shucker - fish and seafood processing
72999 saw maker	63211 scalp treatment specialist
94105 saw operator - metal fabrication	95100 scalping helper - primary metal processing
94120 saw operator - sawmill	94151 scanner operator - printing
94124 saw operator - woodworking	14112 scanning machine operator - desktop publishing
72999 saw repairer	94129 scarf gluer - wood processing
72999 saw repairman/woman	94107 scarfer-borer - metal products manufacturing
95103 saw tailer - wood processing	94107 scarfing and boring machine operator
94120 sawdust reclaim operator - sawmill	94129 scarfing machine tender - wood processing
94120 sawing machine operator - sawmill	84111 scarification equipment operator - forestry
94124 sawing machine operator - woodworking	84111 scarification equipment operator
94124 sawing machine tender - woodworking	84111 scarifier operator - silviculture
40041 sawmill fire chief	73400 scarifier operator
92014 sawmill foreman/woman	53123 scene designer assistant
95103 sawmill labourer	53123 scene designer
94120 sawmill machine operator	53111 scene shifter
72999 sawmill saw fitter	53122 scenery painter
92014 sawmill supervisor	53111 scenic artist - motion pictures, broadcasting and performing arts
95103 sawmill worker	53111 scenic constructor - motion pictures, broadcasting and performing arts
72999 sawsmith	53111 scenic constructor
94120 sawyer - sawmill	53111 scenic painter - motion pictures, broadcasting and performing arts
94124 sawyer - woodworking	53122 scenic painter - visual arts
75110 scaffold erector helper	14405 schedule analyst
75110 scaffold erector	14402 schedule clerk
73209 scaffold repairer	14405 schedule control clerk
75110 scaffolder	14405 schedule maker
94103 scagliola caster - stone products	14405 schedule writer
94219 scale assembler	14405 scheduler - transit system
92024 scale assembly foreman/woman	14402 scheduling clerk
72999 scale calibrator	12013 scheduling clerks supervisor
94219 scale inspector	22302 scheduling technician - manufacturing
94219 scale maker	41320 school adjustment officer
73209 scale mechanic	41405 school adjustment specialist
73209 scale repairer	
94100 scalehouse operator - zinc melting	

40021 school board administrator	51101 science and technology museum curator
40012 school board services manager	41405 science coordinator - education
00010 school board trustee	40020 science dean
73301 school bus driver - special needs passengers	41220 science high school teacher
73301 school bus driver	41220 science teacher - secondary school
72024 school bus drivers supervisor	00013 scientific association chairperson
45100 school bus monitor	41400 scientific consultant
41320 school counsellor	51110 scientific editor
45100 school crossing guard	53124 scientific glass apparatus blower
65312 school custodian	41409 scientific handwriting expert
40021 school district assistant superintendent	52120 scientific illustrator
40021 school district superintendent	72999 scientific instrument calibrator
41320 school guidance department head	62100 scientific instrument sales representative
31301 school health nurse	51100 scientific librarian
40012 school inspection director - public administration	53110 scientific photographer
41405 school inspector	21230 scientific programmer
65312 school janitor	20011 scientific research department manager
42100 school liaison officer - police	20011 scientific research director
45100 school lunchroom supervisor	20011 scientific research manager
70012 school maintenance manager	51114 scientific translator
45100 school monitor	51112 scientific writer
31301 school nurse	83100 scoop operator - underground mining
60040 school of art manager	83100 scooptram operator - underground mining
40020 school of nursing dean	83100 scooptram operator
40020 school of nursing director	53202 scoreboard operator
40020 school of technology dean	53202 scorekeeper
40020 school of technology director	94122 scorer - paper converting
40020 school of technology manager	94130 scouring machine operator
40021 school principal	75210 scow captain
31200 school psychologist	75210 scow operator
42100 school safety officer - police	94120 scrag-saw operator - sawmill
13110 school secretary	62101 scrap buyer
40012 school services director - public administration	95100 scrap machine helper - primary metal processing
40012 school services director	95100 scrap metal baler - primary metal processing
41300 school social worker	60020 scrap metal dealer
41405 school subjects consultant	95100 scrap metal loader
40021 school superintendent	95100 scrap metal processor - primary metal processing
41220 school teacher - secondary school	94100 scrap metal remelter - primary metal processing
40021 school vice-principal	64100 scrap metal salesperson
51101 science and technology curator	

94100 scrap metal shredder operator - primary metal processing	94107 scribing machine tender
94100 scrap metal shredder	51111 script and dialogue writer
95100 scrap metal sorter and baler - primary metal processing	53111 script assistant
92010 scrap metal yard foreman/woman	51110 script editor
95103 scrap piler - wood processing	53111 script person - motion pictures and broadcasting
92010 scrap preparation foreman/woman - primary metal and mineral products processing	52119 script supervisor
92010 scrap preparation foreman/woman - primary metal processing	51111 script writer
94112 scrap rubber grinder - recycling	94107 scroll machine tender
95100 scrap shredder helper	94124 scroll saw operator - woodworking
95100 scrap yard worker - primary metal processing	94131 scroll-quilting machine operator
73400 scraper operator	31301 scrub nurse
94110 scratcher tender - chemical processing	94219 scrubber brush assembler
94130 scray machine feeder	94219 scrubber brush maker
95103 screen cleaner - pulp and paper	94100 scrubber operator
95104 screen cleaner - rubber products manufacturing	95100 scrubber tender - mineral products processing
94150 screen print operator	42100 scuba diver - police
53124 screen printing artisan	42100 scuba-diving specialist - police
95109 screen printing machine feeder	94130 scudder - hide and pelt processing
94150 screen printing machine operator - printing	53122 sculptor
95109 screen printing paster	53122 sculptor-modeller
92014 screen room foreman/woman - pulp and paper	51101 sculpture conservator
94121 screen room operator - pulp and paper	41200 sculpture professor - university
52111 screen stencil cutter - graphic arts	53122 sculpture teacher (except primary, secondary, post-secondary education)
94121 screen tender - pulp and paper	53122 sculpturing teacher (except primary, secondary, post-secondary education)
51111 screen writer	95105 scutcher tender
94110 screener - chemical processing	85102 sea farm attendant
95100 screening equipment helper - primary metal and mineral products processing	85102 sea farm worker
95104 screening machine feeder - rubber products manufacturing	22101 sea-bottom technologist
94140 screening machine tender - food and beverage processing	22110 sea-farming technologist
64410 screening officer	22101 sea-floor technologist
94151 screenmaker	64100 seafood counter clerk
94121 screenman/woman - pulp and paper	94142 seafood preparer - fish and seafood processing
94130 screen-printing machine operator - textile manufacturing	64100 seafood sales clerk
94106 screw machine operator - metal machining	85104 seal hunter - hunting and trapping
94106 screw threader	94110 sealant operator - chemical processing
	93200 sealer - aircraft assembly
	85104 sealer - hunting and trapping
	94200 sealer operator - motor vehicle manufacturing
	85104 sealer

94122 sealing machine tender - paper converting	52100 secondary school librarian
75110 seam caulker - construction	40021 secondary school principal
44200 seaman - Royal Canadian Navy	40012 secondary school programs director
74201 seaman/woman	41220 secondary school reading clinician
94219 seamless ball moulder	41220 secondary school teacher
94131 seamless hosiery knitter	41220 secondary school vocational teacher
94100 seamless steel billet piercer - primary metal processing	92100 second-class power engineer
94100 seamless tube roller - primary metal processing	92100 second-class stationary engineer
64200 seamstress	41210 second-language instructor - language school
40042 search and rescue captain	94133 seconds inspector-grader
54100 search and rescue crew member - sports and recreation	42100 secret service officer
72999 search and rescue diver	40020 secretarial college director
53111 searchlight operator	13110 secretary (except legal and medical)
60031 seasonal resort manager	00011 secretary to the council - government services
85120 seasonal swamper - logging forestry	13110 secretary-clerk
85120 seasonal swamper - logging	82031 section grower - cannabis
85120 seasonal tree planter	75211 section labourer - railway
75212 seasonal worker - public works	72204 section lineman/woman - telecommunications
95106 seasoning mixer - food and beverage processing	60020 section manager - retail
94200 seat assembler - motor vehicle manufacturing	74200 section worker - railway
94219 seat belt assembly inspector	11103 securities agent
75110 seat installer - construction	11102 securities analyst - personal finances
83121 seaweed dragger	11101 securities analyst
85102 seaweed gatherer	10020 securities and investment manager
83121 seaweed harvesting machine operator	14201 securities clerk - financial sector
62200 second chef	11102 securities counsellor
63200 second cook	10020 securities manager
53111 second costumes assistant	11103 securities representative
72602 second deck officer	11101 securities research analyst
72603 second engineer - water transport	10020 securities research director
72603 second engineer	10020 securities research manager
40012 second language program director	11103 securities sales agent
40042 second lieutenant	10020 securities sales director
72602 second mate - inland waters	11103 securities salesman/woman
72602 second mate	11103 securities trader
72600 second officer - air transport	11109 securities underwriter
41407 second secretary - foreign service	64410 security agent
41220 secondary school department head	64410 security alarm system consultant
40012 secondary school education director	22311 security alarms installer
	22311 security alarms technician
	64410 security analysis officer - postal service

64410 security and investigations officer	22101 seismic exploration line crew coordinator
42100 security constable - police	22101 seismic exploration observer
64410 security consultant (except computer systems)	85111 seismic GPS rover
10019 security department manager	85111 seismic line cutter
64410 security gate attendant	73402 seismic prospecting driller
64410 security guard - explosives	85111 seismic prospecting observer helper
62029 security guard supervisor	22101 seismic prospecting observer
64410 security guard	22101 seismic survey coordinator
64410 security investigator	85111 seismic survey helper
11201 security management specialist	22101 seismic technician
10019 security manager	21102 seismologist
42100 security officer - police	22101 seismology technician - petroleum geology
64410 security officer	22101 seismology technologist - petroleum geology
64410 security screening guard	22101 seismometer technician
64410 security screening officer	41407 select committee officer
10029 security service manager	95100 selenium recovery helper - primary metal processing
64101 security services sales consultant - wholesale	43109 self-improvement course instructor
64101 security services sales consultant	51112 self-instruction manual writer
64101 security services sales representative - wholesale	72602 self-propelled barge captain
64101 security services sales representative	72602 self-propelled barge deck officer
64410 security specialist (except computer systems)	72603 self-propelled barge marine engineer officer
64101 security system salesperson	72602 self-propelled drilling rig captain
22311 security systems technician	72603 self-propelled drilling rig chief engineer
21102 sedimentary geologist	72603 self-propelled drilling rig first engineer
21102 sedimentologist	72602 self-propelled drilling rig first mate
82030 seed cleaning service contractor	72603 self-propelled drilling rig marine engineer officer
84111 seed cone collector	72602 self-propelled drilling rig master
84111 seed cone picker	72602 self-propelled drilling rig mate
94143 seed corn grader	72603 self-propelled drilling rig second engineer
22111 seed crop inspector	72602 self-propelled oil rig deck officer
80020 seed farmer	65100 self-serve gas bar attendant
22111 seed grains inspector	65100 self-serve gas bar cashier
80020 seed grower	94201 semiconductor assembler
95109 seed packager	92021 semiconductor assembly foreman/woman
80020 seed producer	94201 semiconductor calibrator
22110 seed technologist	94201 semiconductor material gauger - electronic equipment manufacturing
82030 seeding contractor	94201 semiconductor mounter
84121 seiner deckhand	21100 semiconductor physicist
83121 seiner fisherman/woman	41407 Senate committee officer
84101 seismic buried facilities locator	

00010 senator	00012 senior vice-president and chief economist
11100 senior accounting analyst	94110 separation press tender
14200 senior accounting clerk	94140 separator operator - food processing
10021 senior accounts manager - banking, credit and investment	94140 separator-pasteurizer - food processing
21210 senior actuarial analyst	72014 septic system contractor
33109 senior adjuvant	73200 septic system installer
12200 senior bookkeeper	65311 septic tank cleaner
12102 senior buyer - purchasing	73200 septic tank installer
62101 senior buyer - retail or wholesale	60040 septic tank service manager
14201 senior claims clerk	00011 sergeant-at-arms of the House of Commons
11100 senior cost accountant	94132 serger - garment manufacturing
51110 senior editor	94132 serging machine operator
22303 senior estimator - construction	51111 serial story writer
11101 senior financial analyst	51111 serial writer
22112 senior fire control technician	21110 serologist
40041 senior firefighting officer	32120 serology technologist
82020 senior foreman/woman - mining	94107 serrating machine operator
11200 senior industrial relations officer	94107 serrating machine tender - metal products manufacturing
11100 senior intern auditor	65200 server - food and beverage services
11101 senior investment officer	22220 server administrator
21201 senior landscape architect	64409 service adviser
63102 senior loans officer	64409 service advisor - auto repair
10021 senior manager - personal financial services	33102 service assistant - medical
52110 senior motion picture camera operator	14101 service assistant - telephone system
11200 senior negotiating officer - labour dispute resolution	33102 service associate - medical
93101 senior operator - chemical processing	65101 service attendant - gas station
32124 senior pharmacy technician	33102 service attendant - medical
21202 senior planner - land use	64301 service bartender
11101 senior planning and return analyst	72205 service centre technician - telecommunications
11101 senior planning and yield analyst	64409 service consultant - auto repair
90010 senior plant manager	84100 service crew worker - underground mining
73401 senior press operator - printing	22221 service desk analyst
73401 senior pressman/woman - printing	14404 service dispatcher
32121 senior radiation therapy technologist	72205 service inspector - telecommunications
14405 senior schedule writer	72203 service lineman/woman - electric power systems
12101 senior staffing officer	60020 service manager - retail
64400 senior teller - financial services	85111 service rig helper - oil field services
11101 senior treasury analyst	85111 service rig helper
12202 senior underwriter - insurance	83101 service rig operator - oil field services

85111 service rig operator helper	21120 sewage disposal inspector - environmental health
83101 service rig operator	90011 sewage disposal manager
85111 service rig roughneck - oil field services	75110 sewage pipelayer
65101 service station attendant apprentice	90011 sewage plant manager
65101 service station attendant	92101 sewage plant operator
43202 service station inspector	90011 sewage treatment plant manager
60020 service station manager	72400 sewage treatment plant mechanic
72421 service technician - electrical appliances	92011 sewage treatment plant supervisor
72421 service technician - gas appliances	90011 sewage treatment system director
73209 service technician - home health care equipment	92101 sewage-processing equipment tender
22311 service technician - household and business equipment	94132 sewer - garment manufacturing
72410 service technician - motor vehicle repair	72021 sewer construction foreman/woman
22311 service technicians supervisor - household and business equipment	22233 sewer construction inspector
72204 service tracer - telecommunications	75110 sewer digger
64409 service writer - auto repair	74205 sewer flusher operator-driver - public works
12102 services contracts negotiator	72021 sewer installation foreman/woman
40012 services manager - education programs	74205 sewer jet cleaner operator - public works
51122 session musician	74205 sewer jet machine operator - public works
53111 set builder	75212 sewer maintenance worker
53123 set decorator - theatre and motion pictures	92011 sewer services foreman/woman
53123 set designer - theatre	75212 sewer system maintenance worker
53111 set dresser	74205 sewer-flushing truck operator - public works
52119 set electrician	74205 sewer-flushing truck operator
62202 setter - jewellery manufacturing	74205 sewer-pipe-cleaning machine operator - public works
82010 setting foreman/woman logging	43109 sewing instructor - non-vocational
52119 settings shop foreman/woman	94204 sewing machine assembler
41403 settlement counsellor	94204 sewing machine assembly tester
41403 settlement liaison officer	73209 sewing machine mechanic - domestic
12201 settlement management associate	75119 sewing machine mechanic helper
41403 settlement practitioner	92015 sewing machine operator supervisor - fabric, fur and leather products manufacturing
40010 settlement programs director - government services	94132 sewing machine operator
12201 settlement specialist	92015 sewing machine operators foreman/woman - fabric, fur and leather products manufacturing
42201 settlement worker - community services	92015 sewing machine operators supervisor
94110 settler-filterer - chemical processing	75119 sewing machine repairer helper
72100 set-up machinist	64100 sewing machine salesperson - retail
94106 set-up operator - metal machining	73209 sewing machine servicer - domestic
21300 sewage control engineer	41221 sewing teacher - elementary school
92011 sewage disposal foreman/woman	43109 sewing teacher - non-vocational

41220 sewing teacher - secondary school	83100 shearing machine operator - underground mining
41301 sex therapist	94130 shearing machine tender - textile manufacturing
41301 sexologist	75110 sheather helper
94141 shackle hoist operator - meat packing plant	72021 shed foreman/woman - construction
94133 shade matcher - textiles	80020 sheep farm operator
94210 shader - furniture finishing and refinishing	80020 sheep farmer
84100 shaft conveyance operator	85100 sheep feedlot worker
83100 shaft driller	84120 sheep handler
83100 shaft inspector	84120 sheep herds person
83100 shaft miner	85100 sheep shearer
92014 shake and shingle machine foreman/woman - sawmill	82030 sheep shearing contractor
94123 shake inspector - wood processing	94141 sheep sticker
94120 shake maker	94104 sheet and plate inspector - steel mill
95103 shake packer	93200 sheet metal assembler - aircraft assembly
94120 shake sawyer - sawmill	94105 sheet metal brake tender
94120 shake sawyer	72010 sheet metal contractor
94120 shake splitter	94105 sheet metal corrugation machine operator
73209 shaker repairer	94105 sheet metal corrugator
85111 shakerhand - oil and gas drilling	94105 sheet metal cutter - metal fabrication
85111 shakerhand	94105 sheet metal fabrication inspector
94107 shaker-plate tender	72102 sheet metal fabricator
32209 shaman	72102 sheet metal installer
65329 shampooer	41220 sheet metal instructor - secondary school
95109 shank cementer - shoe manufacturing	72102 sheet metal lay-out worker
94124 shaper - wood products manufacturing	95109 sheet metal lithographic press feeder
94124 shaper - woodworking	73401 sheet metal lithographic press operator
94124 shaper operator - woodworking	73401 sheet metal lithographic pressman/woman
94106 shaper set-up operator	72102 sheet metal mechanic apprentice
72104 shaper, structural steel plates	72102 sheet metal mechanic bench hand
94124 shaver operator - woodworking	72102 sheet metal mechanic
94124 shaver tender - woodworking	72102 sheet metal model maker
94130 shaving machine tender - hide and pelt processing	72102 sheet metal patternmaker
95101 shear helper - metal fabrication	95101 sheet metal polisher and buffer
94105 shear operator - metal fabrication	94105 sheet metal roll operator - metal fabrication
94105 shear operator	72010 sheet metal roofer supervisor
94105 shear setter - metal fabrication	72102 sheet metal roofer
94105 shearer - metal working	72010 sheet metal roofing contractor
83100 shearer operator - underground mining	94105 sheet metal spinner - metal fabrication
72400 shearing machine fixer - textile manufacturing	72102 sheet metal work erector
	72102 sheet metal worker - manufacturing

72102 sheet metal worker - specialty manufacturing	85102 shellfish harvester
75110 sheet metal worker helper - construction	95107 shellfish labourer
72102 sheet metal worker	95107 shellfish packer - fish processing
72010 sheet metal workers foreman/woman	95107 shellfish processing labourer
72010 sheet metal workers supervisor	94142 shellfish processor
94121 sheet paper inspector	94142 shellfish separator tender - fish and seafood processing
94121 sheet paper sampler	94142 shellfish shucker - fish and seafood processing
94100 sheet roller - primary metal processing	94142 shellfish shucker
95100 sheet roller helper - primary metal processing	94142 shellfish-processing machine tender
94100 sheet rolling mill operator - primary metal processing	42201 shelter supervisor - social services
94100 sheet rougher - primary metal processing	42201 shelter workshop supervisor
94112 sheet rubber inspector	14300 shelving clerk - library
94104 sheet steel inspector - primary metal processing	84120 shepherd
94112 sheeter - rubber products manufacturing	95101 sherardizer helper
95103 sheeter helper - pulp and paper	94213 sherardizer
94111 sheeter operator - plastic manufacturing	43200 sheriff
94121 sheeter operator - pulp and paper	43200 sheriff's bailiff
94105 sheet-metal-embossing machine operator	43200 sheriff's officer
94105 sheet-metal-working machine operator - metal products manufacturing	32209 shiatsu therapist
94105 sheet-metal-working machine set-up operator	73400 shield operator
94105 sheet-metal-working machine tender - metal fabrication	72106 shielded-metal arc welder
73102 sheetrock applicator	82020 shift boss - mining and quarrying
65102 shelf stocker - retail	82020 shift foreman/woman - mining and quarrying
65102 shelf stocker - supermarket	82020 shift leader - mining and quarrying
94219 shell assembler - explosives	62020 shift manager - fast food restaurant
94101 shell core maker - foundry	92014 shift operating supervisor - pulp and paper
94101 shell mould assembler - foundry	94120 shingle cutter - sawmill
95109 shell mould bonder	94120 shingle cutter
94101 shell moulder - foundry	94123 shingle inspector - wood processing
94210 shellac sprayers - furniture finishing and refinishing	94120 shingle maker
94213 shellacker	92014 shingle mill foreman/woman - wood processing
94107 shell-case chamfering machine tender	92014 shingle mill foreman/woman
85102 shellfish bed attendant	92014 shingle mill supervisor - wood processing
95107 shellfish checker - fish processing	75101 shingle piler - material handling
80022 shellfish farmer	73110 shingle roofer
83121 shellfish fisherman/woman	72014 shingle roofing contractor
84121 shellfish harvester deckhand	94120 shingle sawyer
83121 shellfish harvester operator	95103 shingle trimmer
	73110 shingler trainee
	73110 shingler

13200 ship agent	64311 ship supply officer
74201 ship boiler tender	72602 ship third mate
64313 ship cargo agent	74201 ship tunnel operator
60020 ship chandler	74201 ship tunnelman/woman
72602 ship chief officer	72602 ship watchkeeping mate
21399 ship construction engineer	74201 ship watchman/woman
72500 ship crane operator	42101 shipboard firefighter
22212 ship detail draftsman	13200 shipbroker
74201 ship engine and boiler room crew member	72310 shipbuilding carpenter
72405 ship engine fitter	22212 shipbuilding draftsman
74201 ship engine room greaser	75119 shipbuilding electrician helper
74201 ship engine room mechanical assistant	21399 shipbuilding engineer
72603 ship engineer officer	95101 shipbuilding fitter helper
72602 ship first mate	72104 shipbuilding fitter
22231 ship inspector	72310 shipbuilding joiner
72310 ship joiner	92023 shipbuilding supervisor
72013 ship joiners foreman/woman	72104 shipfitter apprentice
72602 ship junior mate	95101 shipfitter helper
14401 ship keeper	72104 shipfitter
13200 ship line agent	72010 shipfitters foreman/woman
70020 ship line manager	75100 shiploader operator
75100 ship loader operator	75101 shipment assembler
72405 ship machinery fitter	14400 shipper
75119 ship machinery installer helper	14400 shipper-receiver
70020 ship management operations manager	14400 shipping agent
72602 ship master	14400 shipping and receiving clerk
72999 ship model maker	12013 shipping and receiving supervisor
72602 ship operation chief officer	70020 shipping and warehousing service manager
65210 ship passenger attendant	64401 shipping clerk - mail and postal services
72602 ship pilot	14400 shipping clerk
72301 ship pipefitter	12013 shipping clerks supervisor
64311 ship purser	14402 shipping control clerk
22301 ship repair technician	13201 shipping coordinator
72400 ship rigger	64101 shipping sales representative
72010 ship riggers foreman/woman	70020 shipping services manager
72602 ship second mate	12013 shipping supervisor
72301 ship steamfitter	72602 ship's captain
74201 ship stoker	74201 ship's carpenter
14401 ship storekeeper	63200 ship's cook
14401 ship storeman/woman	72201 ship's electrician - shipbuilding and repair
14403 ship supply clerk	72201 ship's electrician - water transport

72201 ship's electrician	65329 shoe shiner
72602 ship's mate	94132 shoe stitcher
72104 ship's plater	60020 shoe store manager
95101 shipwright helper	94219 shoelace-tipping machine tender
75119 shipyard electrician helper	53125 shoe-last patternmaker
72201 shipyard electrician	63220 shoemaker
95109 shipyard labourer	94219 shoe-trimming machine operator - footwear manufacturing
72010 shipyard machine shop foreman/woman	94141 shohet - meat packing plant
92023 shipyard painter foreman/woman	85111 shooter - seismograph
95109 shipyard painter helper	85111 shooter helper - seismic prospecting
94213 shipyard painter	65211 shooting gallery operator
65320 shirt finisher - laundry and dry cleaning	94211 shop assembler - wood products manufacturing
65320 shirt folder - laundry and dry cleaning	64100 shop clerk
94133 shirt inspector	22313 shop inspector - avionics
65320 shirt presser - laundry and dry cleaning	60020 shop manager
65320 shirt-folding machine operator - laundry and dry cleaning	72205 shop repairer - telecommunications
74203 shock absorber installer	64200 shop tailor
95105 shoe cutter	70012 shopping centre maintenance manager
94219 shoe decoration assembler - footwear manufacturing	70012 shopping centre manager
94219 shoe decorator - footwear manufacturing	64410 shopping investigator
53123 shoe designer	70012 shopping mall maintenance manager
63220 shoe dyer	70012 shopping mall manager
94133 shoe inspector	80010 shore captain - fishing
95109 shoe manufacturing labourer	70020 shore captain - water transport
63220 shoe mender - retail	75110 shore dredging labourer
95109 shoe parts buffer	83121 shore fisherman/woman
95105 shoe parts cutter - footwear manufacturing	73300 short haul truck driver
95109 shoe parts dipper	63200 short order cook
94219 shoe parts fastener	51111 short story writer
95109 shoe parts former	53200 short-distance runner
95109 shoe parts marker	52112 short-wave receiving station technician
94132 shoe parts sewer	83110 shortwood harvester operator
95109 shoe parts stock sorter	95100 shot bagger - explosives manufacturing
53125 shoe patternmaker	83100 shot firer - underground mining
60040 shoe repair service manager	83100 shot firer
63220 shoe repairer - retail	82020 shot foreman/woman - mining and quarrying
63220 shoe repairer	95101 shot grinder - metal products manufacturing
64100 shoe salesperson - retail	94101 shot maker - foundry
94132 shoe sewer	53200 shot put
	95101 shotblaster - metal fabrication

95101 shotblaster	72400 shuttle fixer - textile manufacturing
95101 shotblasting machine operator - metal products manufacturing	94124 shuttle maker - woodworking
95101 shotblasting machine tender - metal products manufacturing	73301 shuttle operator
94219 shotgun proof tester	94124 shuttle planer - woodworking
94150 shotgun-shell-printing machine tender	72400 shuttle setter - textile manufacturing
83100 shotman/woman - underground mining	94124 shuttle shaper and tip inserter - woodworking
94219 shovel handle assembler	64321 sic bo croupier
74203 shovel oiler	73400 side boom operator - pipeline construction
73400 shovel operator - heavy equipment	73400 side boom tractor operator
85110 shoveller - underground mining	72106 side seaming tender
53123 show and demonstration designer	94152 side stitching machine operator - printing
53121 show horse rider	72401 sideboom mechanic
65210 showcase installer	75110 sider helper
94219 shower door and panel assembler	94151 siderographer - printing
94111 shredder operator - plastic recycling	75212 sidewalk cleaner
94140 shredder operator - tobacco processing	73100 sidewalk concrete finisher
94124 shredder operator - woodworking	75212 sidewalk snowplow operator
94140 shredding machine operator - food processing	75212 sidewalk-cleaning equipment operator
94111 shredding machine operator - plastic recycling	83101 sidewall core sampler - oil field services
94110 shredding machine tender - chemical processing	73200 siding applicator
94142 shrimp peeler - fish and seafood processing	75211 siding checker-messenger - railway transport
94142 shrimp peeler tender - fish and seafood processing	72014 siding contractor
94142 shrimp processor - fish and seafood processing	73200 siding installer
94130 shrinking machine operator - textile manufacturing	73209 sieve repairer
95106 shrouder - food and beverage processing	95104 sifting machine feeder - rubber products manufacturing
80021 shrub grower	75210 sightseeing boat captain
94142 shucker - fish and seafood processing	75210 sightseeing boat master
73300 shunt truck driver	75210 sightseeing boat operator
73300 shunter - trucking	73301 sightseeing bus driver
73300 shunter truck driver	64320 sightseeing guide
95102 shutdown labourer - chemical processing	73301 sightseeing tour driver
73301 shuttle bus driver	64101 sign and display leasing agent
84100 shuttle car operator	64101 sign and display sales representative
73301 shuttle driver - auto dealership	72310 sign carpenter
73301 shuttle driver - car rental company	52120 sign designer
95105 shuttle filler - textile processing	73200 sign erector
94124 shuttle finisher - woodworking	43202 sign inspector
	73200 sign installer
	42203 sign language instructor
	51114 sign language interpreter

51114 sign language platform interpreter	22112 silviculture technologist
42203 sign language teacher	84111 silviculture worker
52111 sign layout detailer	22112 silviculturist
94213 sign letterer	72320 simulated stone mason
94219 sign maker	72320 simulated stone setter
52111 sign painter	21231 simulation software design engineer
94213 sign panel primer	21222 simulations analyst - computer systems
94213 sign spray painter	51114 simultaneous interpreter
52111 sign writer	94130 singeing and boiling machine tender - textile manufacturing
21310 signal engineer	95106 singeing machine tender
75211 signal gang helper	51122 singer
74200 signal tower operator - railway	11202 singers agent
72204 signal tracer - telecommunications	51121 singer-songwriter-composer
72011 signaling system installation foreman/woman	94132 single-needle sewing machine operator
74200 signalmán/woman - railway transport	73110 single-ply roofer
53122 silhouette artist	94106 single-spindle drill press set-up operator - metal machining
94201 silicon wafer fabricator	94100 sink-float equipment operator - metal processing
94201 silicon wafer grower	95100 sintering machine loader - primary metal processing
65320 silk finisher - laundry and dry cleaning	94100 sintering machine operator
53122 silkscreen artist	92010 sintering plant foreman/woman - mineral and metal processing
94151 silkscreen assembler - printing	92010 sintering plant foreman/woman - primary metal and mineral products processing
94130 silk-screen printing machine operator - textile manufacturing	94101 sintering press tender - foundry
94150 silk-screen printing machine operator	42204 sister/brother - religion
52111 silkscreen stencil cutter	21202 site planner
52111 silkscreen technician	21231 site reliability engineer
94150 silk-screen tender - printing	95103 sixth hand - pulp and paper
94150 silk-screening machine operator	94130 size maker - textile manufacturing
62202 silver chaser	94107 sizing and trimming machine adjuster - explosives manufacturing
94213 silver plater	94219 sizing machine operator - fabric
94213 silver spray operator	94130 sizing machine tender - textile manufacturing
95109 silvering machine feeder	95109 skate lining inserter
53124 silversmith	94219 skate maker
94219 silverware buffer	94219 skate press operator
65201 silverware cleaner	65211 skate sharpener
53124 silverware engraver	64100 skate shop attendant
92024 silverware manufacturing supervisor	54100 skateboarding instructor
64100 silverware salesperson - retail	
82010 silviculture contractor	
82010 silviculture supervisor	
22112 silviculture technician	

53200 skater	94142 skinning machine setter - fish processing
94130 skein spooler - textile manufacturing	84100 skip loader - underground mining
94130 skein winder - textile manufacturing	72500 skip operator
94133 skein yarn examiner - textiles	84100 skip tender - underground mining
94130 skeiner - textile manufacturing	84100 skip tender
62029 ski area supervisor	14202 skip tracer - collection
53201 ski coach	94112 skiver - rubber products manufacturing
73209 ski equipment repairer	54100 skydiving instructor
54100 ski instructor - sports and recreation	94212 skylight assembler - plastic products manufacturing
54100 ski instructor	65210 skytrain attendant
65211 ski lift attendant	94100 slab caster - steel rolling mill
62029 ski lift attendants supervisor	94112 slab machine operator - rubber products manufacturing
72400 ski lift mechanic	94120 slab saw operator
65211 ski lift operator	94110 slabbing machine operator - chemical processing
72400 ski lift repair technician	93100 slabbing mill roller - primary metal processing
94219 ski maker	95104 slab-off machine tender - rubber products manufacturing
54100 ski patrol	95104 slab-off man/woman - rubber products manufacturing
54100 ski patroller	53121 slack-rope performer - entertainment
64320 ski resort host/hostess	94100 slag pelletizer - primary metal processing
60031 ski resort manager	85111 slasher - oil and gas
64100 ski shop retail clerk	85111 slasher - oil field services
65211 ski tow attendant	94130 slasher - textile manufacturing
65211 ski tow operator	83110 slasher loader operator
75110 skid setter - pipeline construction	83110 slasher operator - logging
75101 skidder - fruit packing	94120 slasher operator - sawmill
84110 skidder operator - logging	94130 slasher operator - textile manufacturing
84110 skidder operator	95105 slasher operator helper - textile processing
82010 skidders foreman/woman - logging	83110 slasher saw operator - logging
53200 skier	94120 slasher saw operator - sawmill
95100 skimmer - primary metal and mineral products processing	83110 slasher sawyer operator - logging
63211 skin care consultant	94120 slasher trim operator - sawmill
63211 skin care specialist	83110 slasher-brusher
63211 skin care technician	94124 slat picker - woodworking
31100 skin disease specialist	94124 slat slicer - wood products
93200 skin fitter - aircraft assembly	94103 slate bed maker - clay products
31100 skin specialist	94103 slate cutter
94111 skin-former machine tender - plastic manufacturing	94103 slate mixer
94142 skinner operator - fish processing	
95106 skinning machine feeder - food and beverage processing	

85110 slate picker	95100 slime recovery plant helper - primary metal processing
94103 slate-cutting and slate-grinding machine tender	94100 slime treater - primary metal processing
94141 slaughterer - meat packing plant	75110 slinger - construction
94141 slaughterer	75110 slip form curb machine tender
94141 slaughterhouse butcher	94103 slip mixer tender
92012 slaughterhouse foreman/woman	95100 slip sealer - mineral products processing
92012 slaughterhouse supervisor	95109 slip seat coverer - furniture assembly
92012 slaughtering and meat packing workers foreman/woman	95105 slipcover cutter - fabric products manufacturing
22111 slaughtering and meat processing plant inspector	94132 slipper maker
94219 sleeping bag finisher	94111 slitter operator - plastic manufacturing
65210 sleeping car attendant	94112 slitter operator - rubber products manufacturing
73311 sleeping car conductor	94122 slitter-creaser - paper converting
65210 sleeping car porter	94122 slitter-creaser feeder - paper converting
94205 sleeve-making machine tender - electrical equipment manufacturing	94122 slitter-creaser operator - paper converting
94122 sleever - paper converting	95105 slitter-rewinder
55109 sleight-of-hand artist	94122 slitter-scorer - paper converting
94140 sliced cheese maker	94130 sliver lapper - textile manufacturing
94140 slicing machine operator - food and beverage processing	22311 slot machine technician - casino
94140 slicing machine tender - food and beverage processing	62022 slot machines section head
83101 slickline operator - oil field services	62022 slot supervisor
83101 slickline operator	94130 slubber tender - textile manufacturing
94219 slide fastener chain machine tender	84100 sludge pump operator - underground mining
94107 slide fastener links machine tender	95100 sludge worker - primary metal processing
94107 slide fastener links maker	95102 slug-press feeder
94219 slide fastener machine operator	93100 slurry controller - primary metal processing
94219 slide fastener machine tender (except plastic products)	94100 slurry equipment operator - primary metal and mineral products processing
95101 slide fastener polisher - metal products manufacturing	94100 slurry equipment operator
94105 slide forming machine setter - metal fabrication	94122 slurry mixer
94105 slide forming machine set-up operator	83100 slusher operator - underground mining
94105 slide forming machine tender - metal fabrication	31103 small animal veterinarian
94153 slide maker - photographic processing	31103 small animal veterinary internist
94219 slide-fastener-cutting machine operator	31103 small animal veterinary specialist
94132 slide-fastener-sewing machine operator	94106 small arms barrel threader
94100 slime recoverer - primary metal processing	94124 small arms checkerer
94100 slime recovery operator - primary metal processing	72999 small arms repairer
	94219 small arms tester
	41402 small business counsellor
	41100 small claims court judge
	10019 small claims court registrar

14103 small claims court supervisor	75110 smelter liner
75210 small craft operator	93100 smelting furnace operator - primary metal processing
94202 small electric motor armature winder	21322 smelting plant engineer
94202 small electric motor assembler	64100 smoke shop clerk
94202 small electric motor core and shaft assembler	95106 smoked meat preparer - food and beverage processing
94202 small electric motor tester	94140 smokehouse operator - food and beverage processing
94202 small electrical appliance assembler	72320 smokestack bricklayer
94202 small electrical appliance assembly group leader	72999 smokestack repairer
94202 small electrical appliance assembly lead hand	94124 smoking pipe air hole driller
94202 small electrical appliances inspector	94124 smoking pipe burler - woodworking
94202 small electrical products assembler	94124 smoking pipe maker - woodworking
72429 small engine and equipment mechanic	94124 smoking pipe sander - woodworking
92023 small engine assembly foreman/woman	94124 smoking pipe sander
92023 small engine assembly supervisor	94213 smoking-pipe stainer
72429 small engine mechanic	95109 smoothing machine tender - shoe manufacturing
72020 small engine repair foreman/woman	65201 snack bar attendant
72429 small engine repairer	22214 snow controller
72429 small engine technician	73200 snow fence erector
72429 small equipment mechanic apprentice	73400 snow removal equipment operator - private home
72429 small equipment repairer	74205 snow removal equipment operator - public works
63200 small establishment cook	85121 snow shoveller - grounds maintenance
85101 small fruit picker	74200 snowblower operator - railway
94204 small marine engine assembler	92023 snowblower tractor assembly foreman/woman
94200 small parts assembler - motor vehicle manufacturing	53200 snowboarder
94202 small transformer assembler - electrical equipment manufacturing	54100 snowboarding instructor
94202 small transformer core builder	73400 snow-grooming machine operator
94202 small transformer inspector	65211 snowmaker
94202 small transformer tester	65211 snowmaking equipment operator
72999 small-aircraft model maker	65211 snowmaking facility attendant
43109 small-boat navigation instructor	65211 snowmaking machine operator
75119 small-engine mechanic helper	94204 snowmobile assembler
72020 small-engine repair shop foreman/woman	92023 snowmobile assembly foreman/woman
72020 small-engine repair shop supervisor	92023 snowmobile assembly supervisor
72020 small-equipment repair shop supervisor	94204 snowmobile final inspector
72020 small-machines repair shop supervisor	94204 snowmobile inspector
92010 smelter foreman/woman - primary metal and mineral products processing	64322 snowmobile operations guide
95100 smelter helper	72423 snowmobile repairer
95100 smelter labourer	

72423 snowmobile repairman/woman	10022 social media manager
94204 snowmobile test rider	11202 social media specialist
94219 snowshoe weaver	40010 social planning director - government services
92013 snowtrack foreman/woman - rubber manufacturing	41403 social policy advisor
84101 snubbing-unit operator	41403 social policy analyst
94140 snuff can inspector	41403 social policy consultant
94140 snuff dryer - tobacco processing	41403 social policy planning consultant
94140 snuff grinder - tobacco processing	41403 social policy researcher
94140 snuff-blending machine operator - tobacco processing	41403 social program officer
95106 snuff-packing machine tender	40010 social programs administrator - government services
95100 soaking pit bottom cleaner - primary metal processing	40010 social programs assistant director - government services
94219 soap and toilet goods preparations inspector	40010 social programs development chief - government services
94110 soap boiler	42201 social rehabilitation officer
94110 soap chipper	42201 social rehabilitation technician
94110 soap cutter and stamper	42201 social rehabilitation worker
94110 soap flake dryer operator	12113 social research assistant (except university)
94110 soap maker	41403 social researcher
53201 soccer coach	12113 social science research assistant (except university)
53200 soccer player	41403 social science researcher
42201 social aid officer	21210 social science statistician
41403 social and community care licensing officer	41200 social sciences professor - university
41409 social and cultural anthropologist	41220 social sciences teacher - secondary school
42201 social animator	41409 social scientist
41409 social anthropologist	40030 social service general manager
41403 social assistance advisor	41403 social service program officer
40030 social assistance director	40030 social services area director
42201 social assistance officer	42201 social services assistant
41403 social assistance policy analyst	40030 social services centre administrator
41300 social casework consultant	40030 social services centre director
64201 social consultant	40030 social services centre manager
41403 social development officer	41403 social services consultant
40010 social development programs chief - government services	40030 social services department chief
41409 social ecologist	40030 social services department head
41401 social economist	40010 social services director - government services
12103 social events coordinator	40030 social services director
41409 social historian	40030 social services district director
41403 social issues researcher	00013 social services institution corporate controller
11202 social media coordinator	40030 social services local manager

40030 social services manager	94131 sock looper
41403 social services planner	80020 sod farmer
41403 social services planning consultant	85121 sod layer
40010 social services planning manager - government services	85121 sod laying labourer
40010 social services policy, planning and research director - government services	94110 soda dialyzer
41403 social services program officers supervisor	94110 soda solution maker
41403 social services program planner	94110 soda solution mixer
40030 social services provincial coordinator	94210 sofa inspector - furniture manufacturing
40030 social services regional administrator	75201 soft drink driver-salesman/woman
40010 social services regional director - government services	95106 soft drink mixer
41210 social services teacher - college level	94140 soft drink powder mixer
42201 social services volunteer coordinator	75201 soft drinks driver
42201 social services worker	83100 soft rock miner
41403 social survey researcher (except statistician)	94200 soft top trimmer - motor vehicle manufacturing
41403 social survey researchers supervisor	94112 softball centre moulder
40010 social surveys director - government services	22214 softcopy photogrammetrist
41403 social welfare advisor	21231 software and information technology project manager
42201 social welfare officer	21231 software architect
41403 social welfare research officer	21231 software design engineer
41300 social work coordinator	21231 software design project manager
40010 social work director - government services	21231 software design supervisor
40030 social work director	21231 software design verification engineer
41300 social work officer - Canadian Armed Forces	21231 software designer
41300 social work officer	21232 software developer
41200 social work professor - university	21231 software development engineer
41300 social work supervisor	20012 software development manager
41300 social worker	21232 software development programmer
41300 social workers supervisor	21232 software development project manager
51113 society columnist	21231 software engineer
51110 society editor	21231 software engineering lead
51113 society journalist	20012 software engineering manager
51113 society reporter	22221 software installation technician
41403 socio-economic research and planning officer	21232 software programmer
41409 sociolinguist	21231 software project manager
41409 sociologist	21222 software quality assurance (QA) analyst
41200 sociology professor - university	21222 software quality assurance (QA) auditor
95109 sock boarder	21231 software quality assurance (QA) engineer
94131 sock foot knitter	20012 software quality assurance director
94131 sock knitter - textiles	62100 software sales representative
	21231 software systems designer

21231 software systems integration engineer	72420 solid fuel heater installer
21231 software technical architect	72420 solid fuel heating installer
22221 software technical support analyst	62100 solid fuel heating sales consultant
22222 software test coordinator	95109 solid tire mounter - toy manufacturing
22222 software tester	22300 solid waste disposal technician
21231 software testing engineer	21300 solid waste management engineer
22222 software testing technician	90011 solid waste processing district manager
22110 soil bacteriological technician	90011 solid waste processing manager
22110 soil bacteriological technologist	90011 solid waste processing operations planning manager
21110 soil bacteriologist	41400 solid waste program coordinator
21101 soil chemist	41400 solid waste program manager
21112 soil conservationist	21100 solid-state physicist
21300 soil engineer	51122 soloist
21112 soil fertility expert	94110 solution mixer - chemical processing
22233 soil inspector - construction	94111 solution mixer operator - plastic manufacturing
82030 soil preparation contractor	94100 solution operator - primary metal and mineral processing
22101 soil science technician - mining	21222 solutions architect - cloud management and monitoring
21109 soil scientist	21222 solutions architect - information technology (IT)
22300 soil technologist - civil engineering	94111 solvent mixer operator - plastic manufacturing
22300 soil testing technologist - civil engineering	94140 solvent process vegetable oil extractor
22300 soil testing technologist	94110 solvent recovery tender - chemical processing
82030 soil-testing service contractor	65200 sommelier
73200 solar heating equipment installer	43204 sonar operator
73200 solar heating technician	22310 sonar technician
73200 solar hot water system installer	51121 songwriter
73200 solar panel installer	32122 sonographer - medical
72106 solderer	32122 sonography technologist
72106 solderer-dipper	51122 soprano
95101 soldering machine feeder	95109 sorter - recyclable materials
72106 soldering machine operator	95104 sorter - rubber products manufacturing
44200 soldier - Canadian Army	74100 sorting and routing clerk
95109 sole edge stainer-finisher - shoe manufacturing	95106 sorting machine feeder - food and beverage processing
95109 sole-flexing machine tender	52113 sound cutter
94219 sole-moulding machine operator - footwear manufacturing	53123 sound designer
94219 sole-moulding machine tender - footwear manufacturing	52113 sound editor
94219 solenoid valve assembler	52113 sound effects editor
94112 sole-treading machine tender - rubber footwear manufacturing	52113 sound effects specialist
00010 solicitor general	52113 sound engineer (except professional engineers)
41101 solicitor	

52113 sound engineer assistant	21300 spatial information systems engineer
52113 sound engineer	94201 speaker assembler
72321 sound insulator	12100 special assistant
52113 sound keyer	33102 special care aide - nursing
52113 sound librarian - audio-recording	33102 special care facility attendant
52113 sound mix engineer	33102 special care worker - medical
52113 sound mixer	43200 special constable
52113 sound operator	74101 special delivery mail carrier
52113 sound recorder	63200 special diet cook
52113 sound recording engineer	43100 special education assistant
52113 sound recording supervisor	41405 special education consultant
52113 sound recordist	41405 special education coordinator - education
52113 sound technician	41405 special education coordinator
72321 soundproof material installer	40012 special education programs director
52113 sound-recording and video-recording reproduction equipment operator	40012 special education services assistant director
52113 sound-recording equipment operator	41221 special education teacher - elementary school
12102 sourcing specialist	41221 special education teacher - primary school
62200 sous-chef	41220 special education teacher - secondary school
80020 sow farm manager	42203 special education technician - persons with disabilities
85101 soya bean crop worker	42201 special education technician - social and community services
94140 soya mill operator	53111 special effects assistant
94143 soybean tester	21232 special effects programmer
60040 spa director	52119 special effects technician
60040 spa manager	14201 special endorsement clerk - insurance
14101 spa receptionist	12103 special events coordinator
62029 spa supervisor	12103 special events organizer
52121 space management consultant	12103 special events planner
21100 space physicist	12103 special events program planner
10030 space programs manager - telecommunications	51110 special features editor
21390 space reliability specialist	94102 special glass cutter
22310 space vision technologist	41301 special needs counsellor
21311 spacecraft electronics engineer - hardware	43100 special needs educational assistant
21310 spacecraft electronics engineer	41221 special needs teacher - elementary school
92023 spacecraft subassembly foreman/woman	41220 special needs teacher - secondary school
75110 spacer - pipeline construction	63200 special order cook - hospital
84111 spacing saw operator - forestry	43100 special programs aide - education
84111 spacing saw operator	42203 special programs instructor for persons with disabilities
41220 Spanish teacher - secondary school	41220 special programs teacher - secondary school
93200 spar assembler - aircraft assembly	41101 special prosecutor
94202 spark plug assembler	

72205 special services technician - telecommunications	32109 speech aide
11202 specialist - e-media advertising	31112 speech and hearing therapist
62200 specialist chef	32109 speech correctionist - medical
31100 specialist doctor	32109 speech language assistant
31100 specialist in cardiology	31112 speech pathologist
31100 specialist in community medicine	32109 speech technician
31100 specialist in critical care medicine	32109 speech therapist aide
31100 specialist in emergency medicine	32109 speech therapist assistant
31100 specialist in environmental medicine	31112 speech therapist
31100 specialist in epidemiology and community medicine	32109 speech therapy aide
31100 specialist in geriatric medicine	32109 speech therapy assistant
31100 specialist in hematopathology	51111 speech writer
31100 specialist in infectious diseases	31112 speech-language clinician
31100 specialist in infertility	31112 speech-language pathologist clinician
31100 specialist in internal medicine	31112 speech-language pathologist researcher
31100 specialist in medical oncology	31112 speech-language pathologist
31100 specialist in nuclear medicine	32109 speech-language pathology assistant
31100 specialist in physical medicine and rehabilitation	73209 speedometer repairer
31101 specialist in plastic surgery	94140 spice fumigator - food and beverage processing
31100 specialist in preventive medicine	94140 spice miller
31100 specialist in pulmonary disease	94140 spice mixer
31100 specialist in spinal injuries	74200 spike machine operator - railway
31100 specialist in sports medicine	74200 spike puller machine operator - railway
31101 specialist in vascular surgery	74200 spike-driver operator - railway
31100 specialist physician	92024 spikemaking foreman/woman
65311 specialized cleaner - automobile aesthetics	74200 spiker operator - railway
65311 specialized cleaner	74200 spiking machine operator - railway
73112 specialized painter and decorator	31100 spinal injury specialist
92011 specialty chemicals production supervisor	94124 spindle carver operator - woodworking
62101 specialty food buyer	94140 spinner - food and beverage processing
63202 specialty foods baker - retail	94130 spinner - textile manufacturing
63202 specialty foods baker	94110 spinneret pack preparer - chemical processing
62200 specialty foods chef	72400 spinning fixer
94121 specialty rewinder operator - papermaking	72400 spinning frame fixer - textile manufacturing
51112 specifications writer (except construction)	94130 spinning frame tender - textile manufacturing
32100 spectacle frame fitter	72400 spinning machine fixer - textile manufacturing
94219 spectacle frame polisher	94130 spinning machine operator - textile manufacturing
22100 spectroscopic technologist	94130 spinning machine tender - textile manufacturing
22100 spectroscopist	92015 spinning room foreman/woman - textiles
	92015 spinning supervisor - textiles

72400 spinning technician - textile manufacturing	94130 spooler - textile manufacturing
94106 spiral bevel-gear cutting machine set-up operator	94112 spooler-twister operator - rubber products manufacturing
94106 spiral bevel-gear generator set-up operator	94130 spooling machine tender - textile manufacturing
94152 spiral binding machine operator - printing	51110 sport desk editor
94152 spiral binding worker - printing	50012 sport federation director general
94100 spiral conveyor attendant	50012 sport federation general director
94106 spiral gear-generator operator	50012 sport governing agency executive director
94107 spiral weaving machine operator - metal products manufacturing	50012 sport governing body executive director
94107 spiral weaving machine operator	50012 sport program administrative coordinator
94112 spiral wound gasket maker - rubber products manufacturing	94200 sport utility vehicle (SUV) assembler
94110 splash line tender	92024 sporting equipment manufacturing foreman/woman
94112 splicer - rubber products manufacturing	95109 sporting goods filler
72204 splicer - telecommunications	94219 sporting goods grip-wrapping machine tender
75119 splicer helper - telecommunications	92024 sporting goods manufacturing supervisor
72204 splicer technician - telecommunications	64100 sporting goods rental-shop attendant
72204 splicer technician - telephone	73209 sporting goods repairer
94112 splicing machine tender - rubber products manufacturing	64100 sporting goods salesperson - retail
94130 splicing machine tender - textile manufacturing	60020 sporting goods store manager
94130 splitter - hide and pelt processing	41406 sports activities coordinator
94120 splitter - sawmill	50012 sports administration director - government
94124 splitter - woodworking	11202 sports agent
94120 splitter operator - sawmill	41406 sports analyst
94124 splitting machine operator cork	65211 sports and leisure attendant
94112 splitting machine tender - rubber products manufacturing	41406 sports and leisure consultant
95109 splitting machine tender - shoe manufacturing	41406 sports and leisure counsellor
94219 spoked wheel assembler	50012 sports and leisure director
11202 spokesperson	54100 sports and leisure leader
94140 sponge and dough mixer - food and beverage processing	65211 sports and recreation attendant
94219 sponge mop assembler	41406 sports and recreation consultant
94112 sponge rubber goods inspector	41406 sports and recreation counsellor
94130 sponge-range operator - textile manufacturing	50012 sports and recreation director
41301 spontaneous art teacher - therapy	54100 sports and recreation leader
95105 spool carrier - textile processing	52114 sports announcer
95105 spool hauler - textile processing	50012 sports association director
94130 spool winder - textile manufacturing	00013 sports association president
94107 spool winder	65211 sports attendant
94107 spooler - metal products manufacturing	94219 sports ball inspector and repairer
	94219 sports ball moulder press operator
	94219 sports ball moulder

52120 sports cartoonist	51111 sports writer - novels and books
65211 sports centre attendant	41406 sports, recreation and leisure supervisor
53201 sports coach	41406 sports, recreational and leisure programs supervisor
51113 sports columnist	52114 sportscaster
52114 sports commentator	50012 sports-service sports programs director
53202 sports competition judge	72106 spot resistance welder
41406 sports consultant	72106 spot welder
41406 sports coordinator	53111 spotlight operator
41406 sports counsellor	65320 spotter - laundry and dry cleaning
50012 sports director	95109 spray booth cleaner
51110 sports editor	92013 spray chamber supervisor - rubber and plastic products manufacturing
92024 sports equipment assembly supervisor	94110 spray dryer tender - chemical processing
65211 sports equipment attendant	94205 spray foam machine operator - electrical equipment manufacturing
65211 sports equipment custodian	73209 spray gun repairer
73209 sports equipment repairer	94213 spray paint machine operator
65211 sports facility attendant	94213 spray paint machine tender
70012 sports facility manager	94213 spray paint operator
50012 sports federation director	94213 spray painter - motor vehicle manufacturing
94219 sports headgear assembler	94213 spray painter - production
94219 sports helmet assembler	95109 spray painter helper
54100 sports instructor	94213 spray painter
53202 sports judge	72600 spray pilot
54100 sports leader	94210 spray stainer - furniture finishing and refinishing
53202 sports linesman/woman	94213 spray stainer - production
31100 sports medicine physician	75110 spray truck helper
31100 sports medicine specialist	85120 sprayer - logging and forestry
53202 sports official	94130 spraying machine tender - textile manufacturing
41406 sports policy analyst	75110 spreader box tender
52119 sports program coordinator - broadcasting	94112 spreader machine tender - rubber products manufacturing
41406 sports program coordinator - sports and recreation	73400 spreader operator - heavy equipment
50012 sports program director	94112 spreader operator - rubber products manufacturing
41406 sports program supervisor	95104 spreader operator helper - plastic products manufacturing
41406 sports programs coordinator	94112 spreader tender - rubber products manufacturing
41406 sports projects officer	94200 spring assembler - motor vehicle manufacturing
31200 sports psychologist	94107 spring assembly machine operator
53202 sports referee	94107 spring coiler
51113 sports reporter	
53201 sports scout	
41406 sports supervisor	
51113 sports writer - journalism	

95109 spring inserter - furniture manufacturing	85100 stable hand
94107 spring inspector	85100 stable worker
74203 spring installer	85100 stableman/woman
94107 spring machine assembler	94100 stack dust leach operator - zinc casting
94107 spring machine operator	75101 stacker - material handling
94107 spring machine set-up operator	95109 stacker - printing
94107 spring tester	95103 stacker - wood processing
94107 spring winder	73400 stacker operator - heavy equipment
94107 spring-coiling machine operator	75101 stacker operator - material handling
95109 springer - furniture assembly	94205 stacking machine operator - electrical equipment manufacturing
94107 spring-making machine operator	75101 stacking machine operator - material handling
94107 spring-making machine set-up operator	75101 stacking machine tender - material handling
94107 spring-winding machine operator	85121 stadium groundskeeper
72301 sprinkler and fire protection installer	70012 stadium manager
72301 sprinkler fitter	12201 staff adjuster - insurance
72012 sprinkler fitters foreman/woman	52114 staff announcer
72012 sprinkler system contractor	41101 staff counsel
72301 sprinkler system fitter	41101 staff lawyer
72301 sprinkler system installer (non-construction)	31301 staff nurse
72301 sprinkler system installer apprentice	11200 staff relations administrator
72012 sprinkler system installer foreman/woman	10011 staff relations chief
72301 sprinkler system installer	10011 staff relations manager
72012 sprinkler system installers supervisor	11200 staff relations officer
72012 sprinkler systems contractor	42100 staff sergeant - police
74205 sprinkling truck driver - public works	41101 staff solicitor
53200 sprinter	40040 staff superintendent - police
94130 spun yarn doubler - textile manufacturing	21110 staff toxicologist
95105 spun yarn linker	10011 staff training and development chief
92015 spun yarn preparation foreman/woman	10011 staff training and development manager
92015 spun yarn preparation supervisor - textile processing	11200 staff training and development officer
95105 spun yarn storekeeper	11200 staff training and development supervisor
95105 spun yarn weigher	11200 staff training coordinator
75119 squeak, rattle and leak locator	11200 staff training officer - human resources
94101 squeezer machine operator - foundry	41210 staff training officer - industry
94101 squeezer moulder - foundry	51113 staff writer - newspaper
94124 squeezer tender - woodworking	12101 staffing adviser
75110 stabber - pipeline construction	12101 staffing analyst
75110 stabber	14102 staffing assistant
85100 stable assistant	10011 staffing chief
82030 stable boss	14102 staffing clerk

12101 staffing coordinator	95100 stamper - primary metal processing
12101 staffing officer	95109 stamper and labeller
52119 stage assistant director	72101 stamping die finisher
53111 stage best boy	94152 stamping press operator - printing
72310 stage carpenter	53202 standardbred judge - racetrack
51120 stage director - performing arts	53200 standardbred pacer
52119 stage electrician	53121 standardized patient
52119 stage manager	21101 standards chemist
51121 stage musical director	11201 standards coordinator
51120 stage producer	11201 standards specialist
53111 stage production worker	51112 standards writer
53111 stage property person	53121 stand-in
53123 stage scenery designer	41407 standing committee officer
52119 stage technician	41407 standing or select committee officer
53111 stagehand	53121 stand-up comedian
94151 stager - printing	94102 staple cutter - glass products manufacturing
53111 staging assistant	94130 staple cutter - textile manufacturing
52119 staging supervisor	94107 staple machine set-up operator
72014 stain glass installers foreman/woman	94130 staple processing machine tender - textile manufacturing
65320 stain remover	94219 stapling machine tender
53124 stained glass artist	95106 starch centrifuge tender
53124 stained glass designer	94140 starch converter
73111 stained glass glazier	95106 starch factory labourer - food and beverage processing
72014 stained glass glaziers foreman/woman	94140 starch maker - food and beverage processing
53124 stained glass painter	94140 starch press tender
94102 stained glass production worker	94140 starch separator operator
72310 stair builder-carpenter	94143 starch tester - food and beverage processing
72013 stair builders foreman/woman	94140 starch washer - food and beverage processing
73200 stair installer	64312 station agent - airline
72310 stairway carpenter	72023 station agent - railway transport
94123 stake grader - wood processing	64313 station agent - railway
75119 stakeman/woman - land surveying	74202 station attendant - air transport
75119 staker - detailer	42100 station duty officer - police
94219 staking machine tender	42100 station officer - police
60020 stamp dealer	92100 station operator - electrical power systems
95109 stamp filler	64312 station services agent - airline
94219 stamp pad maker	92100 stationary diesel engine operator
74100 stamp-cancelling machine tender - mail and parcel sorting	75119 stationary engine oiler
53200 stampede performer	92100 stationary engineer "A" and refrigeration plant operator
53200 stampede racer	

92100 stationary engineer "B" and refrigeration plant operator	65320 steam finisher - laundry and dry cleaning
92100 stationary engineer apprentice	75110 steam fitter's helper - construction
92011 stationary engineer foreman/woman	94105 steam hammer operator - metal forging
95102 stationary engineer helper	72301 steam heating installer
92100 stationary engineer	94140 steam kettle operator - food and beverage processing
92011 stationary engineers supervisor	72301 steam main servicer
72400 stationary farm equipment mechanic	73209 steam meter repairer
92100 stationary operating engineer	92100 steam operator
92100 stationary power engineer	94140 steam oven operator - food and beverage processing
60020 stationery store manager	72301 steam pipefitter
72023 stationmaster - railway transport	92011 steam plant engineers foreman/woman
72023 stationmaster	92011 steam plant foreman/woman
11202 stations-relations administrator	72400 steam plant maintenance mechanic
21210 statistical analysis supervisor	92100 steam plant operator
21210 statistical analyst	92100 steam power plant stationary engineer
14110 statistical assistant	65320 steam press operator - laundry and dry cleaning
14110 statistical clerk	62029 steam press operators foreman/woman - laundry and dry cleaning
12012 statistical clerks supervisor	65320 steam presser - laundry and dry cleaning
21210 statistical consultant	65329 steam room attendant
20011 statistical department director	94130 steam sponger - textile manufacturing
21210 statistical methodologist	65201 steam table attendant - food services
12113 statistical officer	94140 steam table operator - food and beverage processing
20011 statistical service manager	94103 steam tank operator - stone products
12113 statistical technician	65320 steam tunnel operator - laundry and dry cleaning
21210 statistician	92100 steam turbine operator - electrical power systems
94203 stator inspector - industrial electrical equipment	72400 steam turbine repairer
94203 stator-core and rotor-core builder and welder - industrial electrical equipment	65311 steamblaster
41403 status of women's directorate policy analyst	65311 steamblasting building cleaner
94120 stave bolt saw operator	94140 steamer - tobacco processing
94120 stave bolt sawyer - sawmill	94130 steamer tender - textile manufacturing
94124 stave jointer - woodworking	72301 steamfitter - shipbuilding
94124 stave machine operator - woodworking	72012 steamfitter foreman/woman
94124 stave sawyer - woodworking	72301 steamfitter/pipefitter (non-construction)
94122 stayer machine tender - paper converting	72301 steamfitter
95109 steam cabinet attendant - garment manufacturing	72301 steamfitter-pipefitter
94130 steam cabinet operator - textile manufacturing	72012 steamfitters supervisor
65311 steam cleaner	94103 steam-pressure cylinder tender - clay products
94140 steam dryer - food and beverage processing	
92011 steam engineers foreman/woman	

22212 steel detailer - drafting	93100 steel-degasser process operator
94150 steel die printer	72101 steel-rule die maker
72105 steel door setting ironworker	84100 steelwork erector - underground mining
53124 steel engraver - arts and crafts	72999 steeplejack
75110 steel erector helper	94140 steepman/woman - food and beverage processing
72104 steel fabricator - structural metal and platework	94204 steering box assembler
72104 steel fabricator	94140 stem cutter - tobacco processing
72104 steel fitter - metal platework	94140 stem roller - tobacco processing
72104 steel fitter - structural metal	94140 stem-flattening machine operator - tobacco processing
72010 steel fitter foreman/woman - metal fabrication	94140 stem-flattening machine tender - tobacco processing
84100 steel form setter - underground mining	94140 stemming machine operator - tobacco processing
75110 steel form setting worker	94103 stencil cutter - stone products
75110 steel forms setter helper	52111 stencil marker - graphic arts
22212 steel frame draftsman/woman	52111 stencil marker
22212 steel frame draftsperson	94151 stencil preparer
72010 steel frame erectors foreman/woman	94150 stencil silk-screen printing machine operator
72310 steel framer - carpentry	94130 stender tender
93100 steel heater operator	12110 stenotype operator
94104 steel inspector - primary metal processing	94151 step and repeat camera operator
90010 steel mill manager	60020 stereo equipment store manager
92010 steel mill shift coordinator	22311 stereo repair technician
95100 steel plant labourer	52113 stereo tape editor
94204 steel plate caulker - shipbuilding	94151 stereotyper
72104 steel plate shaper - ships	72022 stereotypists and electroplaters foreman/woman
94100 steel pourer	33109 sterile processing technician
62100 steel product sales representative	33109 sterile processing worker
72010 steel rigger foreman/woman	93101 sterile products processor - chemical processing
94100 steel roller	33109 sterile supply room attendant
94100 steel rougher	33109 sterilization attendant
94104 steel sheet inspector - primary metal processing	33109 sterilization processing attendant
94105 steel shot machine operator	94140 sterilizer machine operator - food and beverage processing
83110 steel spar operator - logging	94140 sterilizer operator - food and beverage processing
94100 steel straightener operator	94219 sterilizer operator - surgical equipment manufacturing
72010 steel structure erectors foreman/woman	75100 stevedore
72010 steel structure forming, shaping and erecting contractor	72021 stevedores foreman/woman
72310 steel stud framer - carpentry	
94104 steel tester - primary metal processing	
94100 steel treater - primary metal processing	
72010 steel truss erectors foreman/woman	
94107 steel wool machine operator	

72021 stevedoring foreman/woman	51113 stock market reporter
65201 steward - Canadian Armed Forces	94130 stock mixer - textile manufacturing
65200 steward - food and beverage services	92013 stock preparation foreman/woman - rubber manufacturing
12102 stewardship officer	95104 stock preparer - rubber products manufacturing
95102 still cleaner - chemical processing	14400 stock receiver
94140 still operator - brewery	14401 stock records clerk
53110 still photographer	62010 stock supervisor - retail
94110 still tender	94121 stock tester - pulp and paper
95109 stitch separator and simulator - shoe manufacturing	94121 stock washer - pulp and paper
94132 stitcher - garment manufacturing	11103 stockbroker
94152 stitcher operator - printing	94133 stocking inspector
94124 stitcher operator - woodworking	94132 stocking stitcher
94152 stitcher set-up operator - printing	75101 stock-keeper helper
92015 stitchers foreman/woman - fabric, fur and leather products manufacturing	75101 stockpiler
94152 stitcher-trimmer operator - printing	65102 stockroom clerk - retail
92015 stitching department foreman/woman - fabric, fur and leather products manufacturing	11103 stocks and bonds trader
92015 stitching department supervisor - fabric, fur and leather products manufacturing	82030 stockyard and herdsman foreman/woman
92015 stitching department supervisor	85100 stockyard attendant
94132 stitching machine operator - industrial sewing machine	74201 stoker - ships
94152 stitching machine operator - printing	72420 stoker erector
94152 stitching machine set-up operator - printing	31110 stomatologist
84120 stock attendant	95100 stone bed setter - mineral products processing
53200 stock car racer	94103 stone beveller
14401 stock clerk - parts and equipment	94103 stone driller - stone products
65102 stock clerk - retail	94103 stone driller
62010 stock clerks supervisor - retail	85110 stone duster - underground mining
12013 stock clerks supervisor	94103 stone grinder tender
14401 stock control clerk	94104 stone inspector - mineral products processing
12013 stock control supervisor	94103 stone layout marker
94124 stock cutter - woodworking	94103 stone planer
11103 stock exchange floor trader	92010 stone processing foreman/woman
94210 stock grader - furniture manufacturing	94103 stone products buffer
65102 stock handler - food store	94103 stone products machine operator
14400 stock handler	92010 stone products manufacturing foreman/woman
75101 stock helper	94103 stone products moulder
14401 stock keeper	94103 stone products polisher
95104 stock lay-up man/woman - rubber products manufacturing	94103 stone sandblaster
	94103 stone saw operator
	73209 stone saw setter
	94103 stone sawyer - stone products

72320 stone setter	64410 store detective
94103 stone slab splitter tender	64100 store display designer
62202 stonecutter - jewellery	60020 store manager - retail
94103 stonecutter - stone products	14401 storekeeper
72320 stonecutter	14401 storeman/woman
72014 stonemason foreman/woman	53121 story teller
72320 stonemason	52120 storyboard artist
72014 stonemasonry contractor	51111 storyboarder
62202 stonemaker - jewellery	94213 stove refinisher
94103 stonework block maker	72421 stove repairer
94103 stonework drill press operator	72421 stove repairman/woman electric
94103 stonework engraver - stone products	72421 stove serviceman/woman electric
95100 stonework filler - mineral products processing	94213 stove varnisher
94104 stonework grader	95102 stove-bottom worker
94103 stonework moulder	95102 stove-carriage worker
72999 stonework patternmaker	64313 stowage clerk
94103 stonework sandblast operator	75100 stower
94103 stonework saw operator	75101 straddle carrier operator
94103 stonework stencil cutter	75101 straddle truck operator
83100 stope driller - underground mining	94106 straight bevel-gear cutting machine set-up operator
82020 stope foreman/woman - mining	94106 straight bevel-gear generator set-up operator
83100 stope miner	94105 straight line press setter - metal fabrication
94205 storage battery assembler	53121 straight man
94205 storage battery assembly line operator	94105 straightener hand - metal fabrication
94205 storage battery charger - electrical equipment manufacturing	94100 straightening feeder operator
72422 storage battery repairer	94100 straightening machine operator
94203 storage battery salvager	94105 straightening press operator - metal fabrication
94205 storage battery tester	94112 strainer tender - rubber products manufacturing
94205 storage battery tube filler - electrical equipment manufacturing	94101 strand operator - foundry
64100 storage facility leasing clerk	94130 strand-forming machine tender - textile manufacturing
64100 storage facility rental clerk	94107 stranding machine operator
72021 storage foreman/woman	94112 strap machine tender - rubber products manufacturing
75101 storage man/woman	94102 strapping machine operator - glass manufacturing
12102 storage purchasing coordinator	13101 strata property manager
64101 storage services sales representative	12102 strategic sourcing analyst
64100 storage space rental clerk	10012 strategic sourcing director
95109 storage worker - ice processing	21102 stratigrapher
75101 storage worker - material handling	55109 street entertainer
64100 store clerk	

74205 street flusher operator - public works	72021 strip mine blasting foreman/woman
74205 street flusher operator	94140 strip-cutting and blending operator - tobacco processing
65201 street food vendor	94140 strip-cutting machine tender - tobacco processing
51122 street musician	94151 stripper - printing
42201 street outreach worker	94151 stripper-image assembler - printing
73400 street paver operator	94151 stripper-layout specialist - printing
53110 street photographer	94140 stripping machine operator - tobacco processing
72024 street railway and subway operators supervisor	95105 stripping machine tender - leather products manufacturing
72024 street railway operators supervisor	94140 stripping machine tender - tobacco processing
74205 street sprinkler operator - public works	74203 stripping shovel oiler
74205 street sweeper operator - public works	73400 stripping shovel operator
74205 street sweeper operator	94105 strip-roll-forming machine operator - metal fabrication
65109 street vendor	94105 strip-roll-forming machine tender - metal fabrication
72403 streetcar and subway car mechanic	55109 striptease dancer
72024 streetcar and subway operators supervisor	21300 structural design engineer
65311 streetcar cleaner	22300 structural design technologist
73301 streetcar conductor	22212 structural draftsman
72403 streetcar mechanic	21300 structural engineer
73301 streetcar operator	20010 structural engineering manager
72024 streetcar operators supervisor	21300 structural engineering project manager
72021 streetcar track foreman/woman	22300 structural engineering technician
72203 streetlight repairer - electric power systems	42101 structural firefighter
72203 streetlight repairer	21102 structural geologist
72203 streetlight serviceman/woman - electric power systems	73111 structural glass glazier
72203 streetlight servicer - electric power systems	73111 structural glass installer
42201 streetworker - social services	73400 structural hydraulic jack erector
21390 stress engineer - aerospace	22300 structural investigator
65320 stretcher dryer - laundry and dry cleaning	72105 structural iron erector
95100 stretcher-leveller helper - primary metal processing	22233 structural ironwork inspector
94100 stretcher-leveller operator - primary metal processing	72105 structural ironworker
94130 stretching machine operator - hide and pelt processing	72104 structural metal and platework fabricator apprentice
94130 stretching machine tender - textile manufacturing	72104 structural metal and platework fabricator
94130 strike-off machine tender - textile manufacturing	72104 structural metal and platework fitter
53124 stringed instrument maker	72104 structural metal and platework fitter-welder
73209 stringed instrument repairer	

72104 structural metal and platework plater	13100 student assistance officer
72010 structural metal erector foreman/woman	40012 student assistance program director
72105 structural metal erector	32123 student cardiology technologist
72010 structural metal fabricator foreman/woman	41320 student counsellor
72104 structural metal fabricator	32110 student dental mechanic
95101 structural metal fitter helper	32110 student dentist
72010 structural metal fitter supervisor	41320 student employment services coordinator
72104 structural metal fitter	63102 student loans officer
72104 structural metal fitter-assembler	32122 student medical sonographer
72104 structural metal layout marker	45100 student monitor
72104 structural metal worker	32100 student optician
75110 structural plate fitter helper - construction	12101 student placement officer
72404 structural repair technician	11202 student recruiter - post-secondary education
72104 structural steel and platework fitter	65310 student residence cleaner
72010 structural steel contractor	60031 student residence manager
22212 structural steel detailer	41320 student services counsellor
22212 structural steel drafter-detailer	32122 student sonographer - medical
22212 structural steel draftsman	45100 student supervisor
72010 structural steel erecting contractor	43100 student support assistant
75110 structural steel erector helper	41101 student-at-law
72105 structural steel erector	52119 studio administrator
72104 structural steel fabricator	52110 studio camera operator
95101 structural steel fitter helper	72310 studio carpenter
72104 structural steel fitter	52119 studio electrician
22233 structural steel inspector	52119 studio manager - broadcasting
72104 structural steel plate shaper	52119 studio manager
72104 structural steel plate worker-fitter	94151 studio-image-processing system operator
72010 structural steel worker foreman/woman	94219 stuffing machine operator
72104 structural steelwork and platework fitter	94219 stuffing machine tender
73200 structure seat installer	94124 stummel trimmer - woodworking
72204 structured cabling technician	94124 stummel turner - woodworking
21390 structures aerospace engineer	95106 stunner and shackler - meat packing
72404 structures aircraft maintenance engineer (AME)	52119 stunt coordinator
72404 structures mechanic	55109 stunt performer - entertainer
73102 stucco lather	53121 stunt performer - film and theatre
73102 stucco plasterer	55109 stunt rider
72014 stucco plasterers foreman/woman	93200 subassembler - aircraft assembly
40020 student activities dean	94210 subassembler - furniture manufacturing
41320 student affairs and employment officer	94200 subassembler - motor vehicle manufacturing
40020 student affairs director	43202 subdivision control officer
13100 student aid officer	51110 sub-editor

41405 subject consultant - education	94143 sugar tester
40042 sub-lieutenant	85101 sugar-beet farm worker
72106 submerged arc welder	82030 sugarbush operation foreman/woman
72106 submerged arc welding machine operator	94140 sugar-processing machine operator
64401 sub-post office clerk	92015 suitmaking foreman/woman
65109 subscription agent - retail	53200 sulky driver
14100 subscription clerk	94110 sulphonator operator - chemical processing
62010 subscription sales team leader	94110 sulphonator
65109 subscription solicitor	94100 sulphur control operator - zinc pressure leach
21332 subsea engineer	95102 sulphuric acid plant operator helper
43200 sub-sheriff	93101 sulphuric acid plant operator
42201 substance abuse worker	65329 suntan studio attendant
72202 substation electrician - electrical power system	64321 super pan 9 croupier
92100 substation operator - electrical power systems	14201 superannuation clerk - financial sector
95102 substation operator helper	13102 superannuation clerk - government
92100 substation operator	95103 supercalender helper - pulp and paper
41220 substitute high school teacher	94121 supercalender operator - pulp and paper
41221 substitute teacher - elementary school	14400 supercargo
41220 substitute teacher - secondary school	94130 super-draft tender
72024 subway and street railway operators supervisor	21111 superintendent - forestry
72024 subway and streetcar operators supervisor	40040 superintendent - police
65311 subway car cleaner	40021 superintendent of academic affairs
72403 subway car mechanic	40021 superintendent of education programs in public schools
72024 subway controller	40021 superintendent of education programs
72024 subway operators foreman/woman	40021 superintendent of educational services
72024 subway operators supervisor	40021 superintendent of elementary education
14405 subway scheduler	40021 superintendent of elementary schools
72024 subway system traffic controller	00011 superintendent of financial institutions
72024 subway traffic controller	40021 superintendent of operations - schools
73301 subway train operator	40021 superintendent of professional development - schools
12104 succession duty auditor - taxation	40021 superintendent of secondary schools
65320 suede cleaner - laundry and dry cleaning	64314 superintendent of services - hotel
80020 sugar beet farmer	40021 superintendent of special education
95106 sugar boiler helper	40021 superintendent of student services
94140 sugar boiler	70020 superintendent of transportation
85101 sugar bush worker	41100 superior court justice
92012 sugar filter house foreman/woman	63201 supermarket butcher
95106 sugar grinder	65100 supermarket cashier
80020 sugar maple grower	65102 supermarket clerk
92012 sugar processing workers foreman/woman	
92012 sugar refining foreman/woman	

62010 supermarket department supervisor	41220 supply high school teacher
75101 supermarket jigger operator	14402 supply needs estimator
60020 supermarket manager	10012 supply service chief
64100 supermarket meat clerk	41221 supply teacher - elementary school
65202 supermarket meat cutter	14403 supply technician - Canadian Armed Forces
65102 supermarket produce clerk	33109 supply, processing and distribution aide - medical
42201 supervised access worker	10012 supply-management director
62200 supervising chef	51112 support materials writer
21331 supervising engineer - petrography	84100 support miner
21331 supervising engineer - rock sciences	10019 support services administrative manager
92021 supervisor - electronic equipment manufacturing	33102 support services assistant - medical
92012 supervisor - meat packing	10019 support services manager
62010 supervisor - retail	00012 support services vice-president - financial, communications and other business services
92012 supervisor - vegetable packing	00015 support services vice-president - goods production, utilities, transportation and construction
32102 supervisor ambulance attendants	00013 support services vice-president - health, education, social and community services and membership organizations
72014 supervisor bricklaying	00014 support services vice-president - trade, broadcasting and other services
72014 supervisor cement finishing	14103 Supreme Court clerk
12011 supervisor of accounting	41100 Supreme Court justice
72021 supervisor of public works road maintenance workers	41100 Supreme Court of Canada justice
64101 supplier - wholesale	10019 Supreme Court registrar
12013 supply and receiving supervisor	12202 surety underwriter - insurance
64409 supply and return clerk	82020 surface foreman/woman - mining
82020 supply boss - mining	94106 surface grinder set-up operator
14401 supply centre clerk	10029 surface land administration manager
14400 supply chain assistant	72021 surface mine blasting foreman/woman
13201 supply chain coordinator - production	82020 surface mine foreman/woman
10012 supply chain director	82020 surface mine supervisor
10012 supply chain logistics manager	73400 surface mining equipment operator
10012 supply chain manager	94201 surface mount assembler - electronic equipment manufacturing
11201 supply chain process analyst	94201 surface mount assembler
11201 supply chain project manager	94124 surface planer operator - woodworking
13200 supply chain specialist - customs brokerage	94103 surface plate finisher - concrete, clay and stone products
12102 supply chain specialist - procurement	22214 surface weather observer
12013 supply chain supervisor	31101 surgeon
10012 supply chief	41200 surgery professor - university
14402 supply clerk - production	
14403 supply clerk	
13201 supply control coordinator	
82020 supply foreman/woman - mining	

33102 surgical aide	75119 surveyor helper
32129 surgical appliance fitter	73209 survival equipment repairer
33109 surgical assistant - non-nursing	62200 sushi chef
33109 surgical assistant	65201 sushi preparer
31300 surgical coordinator - nursing	41400 sustainability advisor
32129 surgical fitter	41400 sustainability consultant
31301 surgical intensive care nurse	20011 sustainability manager
32101 surgical nursing assistant	41400 sustainability officer
94131 surgical pad knitter	41400 sustainability program coordinator
31100 surgical pathologist	20011 sustainability services manager
31101 surgical physician	41400 sustainability specialist
31101 surgical resident	00012 sustainability vice-president - financial, communications and other business services
62100 surgical supply salesperson	00015 sustainability vice-president - goods production, utilities, transport and construction
33109 surgical technician - non-nursing	00013 sustainability vice-president - health, education, social and community services and membership organizations
32101 surgical technician - nursing	00014 sustainability vice-president - trade, broadcasting and other services
31300 surgical ward supervisor - nursing	94219 suture material winder
14201 surgical-medical claims clerk - insurance	85120 swamper - logging and forestry
13100 surplus assets officer	85111 swamper - oil and gas
10019 surrogate court registrar	85111 swamper - oil field services
10019 surveillance department manager - casino	75211 swamper - truck transport
10030 surveillance manager - telecommunications	94133 swatch checker - textiles
64410 surveillance operator - casino	65310 sweeper
62029 surveillance supervisor - casino	53201 swim coach
14110 survey compiler	53200 swimmer
22212 survey draftsperson	53201 swimming coach
21300 survey engineer	54100 swimming instructor - recreation
14110 survey interviewer	54100 swimming instructor - sports
12012 survey interviewers supervisor	65311 swimming pool cleaner
72600 survey pilot	72014 swimming pool contractor
40010 survey research director - government services	53123 swimming pool designer
40010 survey research manager - government services	73200 swimming pool filter and heater installer
10029 survey research service manager	72014 swimming pool installation contractor
21210 survey statistician	73200 swimming pool installer
14110 survey taker	60040 swimming pool maintenance service manager
14110 survey team notekeeper	73200 swimming pool repairer
73209 surveying and optical instrument repairer	73200 swimming pool servicer
73209 surveying and optical instrument technician	73200 swimming pool worker
75119 surveying and optical instruments repairer helper	
21300 surveying engineer	

84120 swine herdsman	95106 syrup-processing plant labourer
84120 swine technician	92100 system control centre operator - electrical power systems
62020 swing manager - fast food restaurant	21222 system integration analyst
94124 swing-type lathe operator - woodworking	21222 system integration consultant
73310 switch engineer - railway	21222 systems analyst
72205 switch network installer and repairer - telecommunications	21231 systems applications engineer
72205 switch network installer and repairwoman - telecommunications	21231 systems architect
74200 switch tender - railway yard	21222 systems auditor
14101 switchboard operator	21110 systems biologist
12010 switchboard operators supervisor	21221 systems business re-engineering analyst
72205 switched communication electrician	21222 systems consultant
72205 switched network repairer	21311 systems designer - hardware
72205 switched networks installer	20012 systems development manager
74200 switcher - railway yard	21321 systems engineer - manufacturing
94203 switchgear and control panel assembler - industrial electrical equipment	21231 systems engineer - software
94203 switchgear assembler and wirer	20012 systems implementation manager - computer systems
92021 switchgear assembly foreman/woman	21230 systems programmer
94203 switchgear fitter-wirer - industrial electrical equipment	21222 systems quality assurance (QA) analyst
94203 switchgear fitter-wirer	21220 systems security analyst
94203 switchgear panel assembler - industrial electrical equipment	21220 systems security engineer
94203 switchgear panel installer-fitter	21220 systems security planner
94203 switchgear rack assembler - industrial electrical equipment	62100 systems software support sales representative
72422 switchgear repair electrical mechanic	21222 systems specialist - computer systems
74200 switching station switcher - railway yard	22221 systems support representative
10030 switching systems director - telecommunications	22221 systems technical support analyst
74200 switchman/woman - railway	92021 systems test foreman/woman - electronic equipment manufacturing
72205 switchman/woman - telecommunications	22222 systems tester
75119 switchman/woman helper - telecommunications	92021 systems testing supervisor - electronic equipment manufacturing
83121 swordfish fisherman/woman	22222 systems testing technician
21103 synoptic meteorologist	
93101 synthesis chief operator	T
22311 synthesizer repairer	94210 table assembler
94111 synthetic marble production worker	55109 table dancer
22100 synthetic textiles technician	53200 table tennis player
94140 syrup kettle operator	94124 table top edger - woodworking
94140 syrup maker	94124 table top laminator - woodworking
	94219 tablet maker

94219 tablet-coating machine operator	75110 tank builder helper
94219 tablet-making machine tender	95101 tank calibrator - metal products manufacturing
94150 tabulating cards printer	65311 tank car cleaner
12011 tabulating supervisor	74200 tank car controller - railway yard
12011 tabulation supervisor	65311 tank cleaner
12011 tabulators supervisor	93101 tank farm operator
94107 tack maker	94112 tank liner - rubber products manufacturing
72106 tack welder	94100 tank tender - primary metal processing
94219 tacker - footwear manufacturing	94100 tank tender
94132 tacking machine operator - sewing	73300 tank truck driver
51114 tactile interpreter	75101 tank truck loader
94122 tag machine tender - paper converting	75100 tanker loader - marine cargo handling
65320 tagger - laundry and dry cleaning	75100 tanker loader
94150 tag-printing machine tender	74201 tanker pumper - ship
54100 tai-chi instructor	75100 tankerman/woman - marine cargo handling
73311 tail-end brakeman/woman	94100 tankhouse equipment operator - primary metal processing
95100 tailings disposal labourer - primary metal processing	92010 tankhouse foreman/woman - primary metal and mineral products processing
95100 tailings labourer	95100 tankhouse helper - primary metal processing
94100 tailings thickener tender - primary metal processing	94140 tankhouse operator - food and beverage processing
64200 tailor supervisor	94130 tanner - hide and pelt processing
64200 tailor	92015 tannery foreman/woman - hide and pelt processing
65201 take-out attendant - fast food	92015 tannery foreman/woman
75201 takeout pizza driver	72400 tannery machinery repairer
11202 talent agent	92015 tannery supervisor - hide and pelt processing
11202 talent representative	94130 tannery vatman/woman
52114 talk show host/hostess	65329 tanning salon attendant
94121 tall oil operator	60040 tanning salon manager
94140 tallow extractor tender - food processing	94130 tanning solution preparer
94140 tallow refiner	65329 tanning studio attendant
14402 tally clerk - production	92015 tanyard foreman/woman - hide and pelt processing
14402 tallyman/woman - production	53120 tap dance teacher
14402 tallyperson - production	53120 tap dancer
75110 tamper operator - construction	94201 tape cartridge and cassette assembler
74200 tamper operator - railway	94201 tape cartridge and cassette inspector
75110 tamper operator	94150 tape rule printer
74200 tamper-aligner operator - railway	94130 tape-folding machine tender
74200 tamping machine operator - railway	94205 taper operator - electrical equipment manufacturing
94100 tandem roller - primary metal processing	
95106 tank attendant - food and beverage processing	

94205 taper tender - electrical equipment manufacturing	11100 tax examiner
94205 taping machine tender - electrical equipment manufacturing	11100 tax expert
64301 tapman/woman	12104 tax interpretation officer
95100 tapper - glass manufacturing	12104 tax investigator
95100 tapper - primary metal processing	42200 tax law clerk
92010 tapper operations foreman/woman - mineral and metal processing	41101 tax lawyer
94107 tapping machine tender	13111 tax legal assistant
73110 tar and gravel roofer	40011 tax office chief
94130 tar machine tender - textile manufacturing	12104 tax officer
73110 tar roofer	42200 tax paralegal
95106 tare assessor - food and beverage processing	40011 tax policy chief
14200 tariff clerk	40011 tax policy research manager - government services
41101 tariff counsel	12104 tax recovery officer
72021 tarmac paving foreman/woman	14200 tax return preparer
65229 tarot card reader	11100 tax specialist
94219 tarpaulin finisher	12104 taxation investigator
94140 tart maker - food and beverage processing	40011 taxation manager
41407 task force officer	12104 taxation officer
94131 tassel machine tender - textiles	40011 taxation programs director
63211 tattoo artist	11100 taxation rulings officer
63211 tattooer	13110 taxation service secretary
63211 tattooist	72024 taxi and chauffeurs supervisor
11100 tax accountant	14404 taxi dispatcher
11100 tax adviser	72024 taxi driver and private chauffeur supervisor
11100 tax analyst	75200 taxi driver
12104 tax appeal officer	43202 taxi inspector
12104 tax assessor	75200 taxi owner-operator
41101 tax attorney	75200 taxicab driver
12104 tax auditor - government services	53100 taxidermist
11100 tax auditor	53100 taxidermy technician
12104 tax auditors team leader	73209 taximeter repairer
14200 tax clerk	65211 T-bar attendant
12104 tax collection officer	65211 T-bar operator
12104 tax collector	95106 tea blender
11100 tax consultant	92012 tea blending plant foreman/woman
41100 Tax Court judge	65229 tea leaf reader
41401 tax economist	60030 tea room manager
12104 tax enforcement officer	41210 teacher - business college
11100 tax evaluator	41210 teacher - commercial college
	41210 teacher - institute of technology

41221 teacher - junior kindergarten	51110 technical editor
41210 teacher - seminary	22221 technical help desk agent
41200 teacher - teacher's college	40021 technical high school principal
42203 teacher for persons with autism	22212 technical illustrator - drafting
42203 teacher for persons with intellectual disabilities	52100 technical indexer - library
42203 teacher of braille	12112 technical indexer - records and file management
42203 teacher of persons who are blind	62100 technical office equipment sales representative
42203 teacher of persons who are deaf	53100 technical officer - museum
42203 teacher of persons who are hard of hearing	51120 technical producer - motion pictures, broadcasting and performing arts
42203 teacher of persons who are hearing impaired	51120 technical producer
42203 teacher of persons with a mobility impairment	20012 technical program manager - information technology (IT)
42203 teacher of persons with a visual impairment	21222 technical project manager
42203 teacher of persons with developmental disabilities	14100 technical records clerk
41221 teacher-librarian - elementary school	12113 technical research assistant (except post-secondary)
43100 teacher's aide	62100 technical sales consultant
43100 teacher's assistant	62100 technical sales executive
40030 teachers' association director general	62100 technical sales representative - wholesale
43100 teacher's helper	62100 technical sales representative
41405 teaching consultant	62100 technical sales specialist - chemicals
44101 teaching homemaker	62100 technical sales specialist - exports
43100 teaching staff assistant - primary and secondary school	62100 technical sales specialist - imports
11201 team training specialist	62100 technical sales specialist - metals
41220 technical and vocational teacher - secondary school	62100 technical sales specialist
52120 technical animator	62100 technical sales supervisor
21223 technical architect - database	62100 technical salesperson - telecommunications
21311 technical architect - hardware	62100 technical salesperson - wholesale
52120 technical artist	62100 technical salesperson supervisor
53111 technical assistant - audiovisual	40020 technical school director
33101 technical assistant - medical laboratory	40020 technical school manager
13100 technical assistant - office support	13110 technical secretary
65211 technical assistant - sports and leisure	22311 technical service representative - household and business equipment
14110 technical assistant - statistics	62100 technical service sales consultant
21221 technical business analyst	14300 technical services clerk - library
62100 technical business equipment salesperson - wholesale	10030 technical services coordinator - telecommunications
20012 technical delivery manager - information technology (IT)	21310 technical services electrical engineer
51120 technical director - broadcasting	50010 technical services head librarian
51120 technical director - motion pictures, broadcasting and performing arts	51100 technical services librarian

10030 technical services manager	72011 telecommunication line installation, repair and testing supervisor
12113 technical services officer - statistics	72011 telecommunication line installers foreman/woman
41210 technical subjects instructor - vocational institute	72011 telecommunication line installers, repairers and testers foreman/woman
22221 technical support agent	72011 telecommunication line maintenance foreman/woman
22220 technical support analyst - network	72011 telecommunication line maintenance supervisor
22221 technical support analyst	72011 telecommunication line repair foreman/woman
21222 technical support engineer	72011 telecommunication line repairers foreman/woman
22221 technical support representative - information technology (IT)	72011 telecommunication line service supervisor
22221 technical support specialist - information technology (IT)	72204 telecommunication line technician
62100 technical support specialist - wholesale trade	72205 telecommunication line tester
22221 technical support supervisor	72011 telecommunication service foreman/woman
51114 technical translator	72011 telecommunication system installers and repairers foreman/woman
51112 technical writer - aeronautics	72204 telecommunications cable splicer
51112 technical writer - chemical processing	72011 telecommunications contractor
51112 technical writer - electronics equipment	10030 telecommunications department manager
51112 technical writer - pharmaceutical industry	51110 telecommunications editor
51112 technical writer	21311 telecommunications engineer
22100 technician - pharmaceutical production	20010 telecommunications engineering service manager
41210 technological institute instructor	94201 telecommunications equipment assembler
41210 technological institute teacher	72205 telecommunications equipment electrician
41210 technological subjects instructor - vocational institute	72205 telecommunications equipment inspector
22100 technologist, quality control of chemical products	72205 telecommunications equipment installer
41210 technology teacher - college level	72205 telecommunications equipment technician
41400 technology transfer officer	10030 telecommunications facilities manager
41406 teen club programs coordinator	00012 telecommunications general manager
52119 telecasting technician	21311 telecommunications hardware engineer
53111 telecine operator	21311 telecommunications hardware specialist
72011 telecommunication cable installation foreman/woman	10030 telecommunications installation manager
72204 telecommunication cable installer	72204 telecommunications line installer
72204 telecommunication cable repairer	72204 telecommunications lineman/woman
72205 telecommunication equipment tester and regulator	10030 telecommunications manager
72011 telecommunication installation and repair worker foreman/woman	14404 telecommunications operator
72204 telecommunication line construction technician	62100 telecommunications sales representative
72011 telecommunication line installation, repair and testing foreman/woman	62100 telecommunications salesperson
	72205 telecommunications service tester
	10030 telecommunications services manager

21231 telecommunications software engineer	72205 telephone facilities evaluator
21231 telecommunications software specialist	72011 telephone installation foreman/woman
21311 telecommunications specialist - computer systems	72011 telephone installation supervisor
72011 telecommunications supervisor	72205 telephone installer
21311 telecommunications systems specialist	72204 telephone line and cableman/woman
72205 telecommunications technician	72205 telephone line and station installer
72204 telecontrol technologist	72204 telephone line technician
31301 telehealth registered nurse	14101 telephone operator
62010 telemarketer supervisor	12010 telephone operators supervisor
65109 telemarketer	72205 telephone relay tester
62010 telemarketing services supervisor	72205 telephone repairer
62010 telemarketing supervisor	65109 telephone sales agent
31102 telemedicine family physician	62010 telephone sales clerk supervisor
31301 tele-nurse	65109 telephone sales clerk
65229 telepath	65109 telephone salesperson
12201 telephone adjuster - insurance	14101 telephone service analyst
65229 telephone agent - personal services	14101 telephone service assistant
72205 telephone and teleprinter installer-repairer	12010 telephone service supervisor
14101 telephone answering service operator	72205 telephone servicer
94201 telephone assembler	72205 telephone shop repairer
75119 telephone cable splicer helper	65109 telephone solicitor
72204 telephone cable splicer	72205 telephone station installer
72205 telephone central office distribution frame maintainer	72205 telephone station repairer
72205 telephone central office repairer - telecommunications	14110 telephone survey clerk
14101 telephone clerk	72205 telephone switchboard installer and repairer
72205 telephone communication electrician	72205 telephone switchman/woman
72205 telephone communication technician	12010 telephone system night supervisor
10030 telephone company district manager	72205 telephone system relay adjuster
64409 telephone enquiries clerk	12010 telephone system supervisor
72205 telephone equipment installer and repairer	72205 telephone technician - telecommunications
72011 telephone equipment installers foreman/woman	72205 telephone tester
64101 telephone equipment sales representative - wholesale (non-technical)	72205 telephone toll central office tester
64100 telephone equipment salesperson - retail	72205 telephone traffic inspector
72205 telephone equipment tester	51111 teleplay writer - screenwriter
72205 telephone exchange distribution frame maintainer	72205 teleprinter installer - telecommunications
72205 telephone exchange repairer - telecommunications	72205 teleprinter repairer
72205 telephone exchange tester	21232 teleprocessing software programmer
	53111 teleprompt operator
	14101 telereceptionist
	72205 teletype installer - telecommunications
	72205 teletype repairer - telecommunications

72205 teletypewriter (TTY) installer - telecommunications	52112 television switcher
72205 teletypewriter (TTY) repairer	21310 television systems engineer
64101 television advertising time sales representative	12102 television time buyer
64101 television advertising time salesperson	94201 television tube assembler
60020 television and stereo equipment store manager	51111 television writer
73200 television antenna installer	64400 teller - financial services
94201 television assembler	64400 teller trainee
94201 television assembly chief inspector	62023 tellers supervisor
52112 television broadcasting equipment operator supervisor	94100 temper mill roller - primary metal processing
64100 television cable service salesperson	95102 temperature regulator
72205 television cable servicer	94202 temperature-actuated controls tester
52110 television camera operator	94213 temperer - plating and metal spraying
22311 television camera repairer	94140 tempering bin operator - food and beverage processing
51120 television director	92010 tempering foreman/woman - primary metal processing
51120 television director-producer	94129 tempering plant tender
41302 television evangelist	94151 template engraver
52114 television host/hostess	72999 template maker - aeronautics
22311 television installation and repair technician	72999 template maker - shipbuilding
51121 television musical director	72101 template maker - tool and die
51113 television news anchorperson	72999 template maker
52110 television news camera operator	94143 tenderometer tender - food and beverage processing
52114 television newscaster	94219 tennis ball maker operator
94201 television picture tube gun assembler	94219 tennis ball maker tender
94201 television picture tube laminator	53201 tennis coach
94201 television picture tube rim bander	65211 tennis court attendant
94201 television picture tube tester - electronic equipment manufacturing	70012 tennis court manager
51120 television producer	54100 tennis instructor - recreation
72205 television receive only (TVRO) technician	54100 tennis instructor - sports
94201 television receiver inspector and tester - electronic equipment manufacturing	53200 tennis player
22311 television repair supervisor	94124 tenoner operator - woodworking
22311 television repairer	51122 tenor
51113 television researcher	22231 tensile strength inspector
64100 television salesperson - retail	94130 tension drying machine tender - textile manufacturing
22311 television servicer	94201 tension meter assembler - electronic equipment manufacturing
94201 Television set inspector and tester - electronic equipment manufacturing	94219 tent finisher
50011 television station manager	94107 tent frame machine operator
22311 television studio equipment repairer	94219 tent maker

94130 tenter machine tender	20010 test engineering manager - engineering
94130 tenterframe tender	20012 test engineering manager - software
53124 tepee maker	22310 test equipment repairer - oil exploration
72601 terminal air traffic controller	72600 test pilot
72205 terminal and repeater tester - telecommunications	92021 test supervisor - electronic equipment manufacturing
14112 terminal operator	92021 test supervisor - electronics manufacturing
72024 terminal supervisor - motor transport	22310 test technician
51114 terminologist	94104 tester and inspector - primary metal and mineral products processing
51114 terminology advisor	92012 testing and grading foreman/woman - food, beverage and tobacco processing
72320 terra cotta mason	13100 testing coordinator
75110 terrazzo finisher helper	92021 testing foreman/woman - electronic equipment manufacturing
73101 terrazzo finisher	94201 testing machine operator - electronic equipment manufacturing
72014 terrazzo finishing contractor	13100 testing supervisor
73101 terrazzo floor layer	92012 testing, grading and sampling foreman/woman - food and beverage processing
75110 terrazzo layer helper	14301 tests clerk
73101 terrazzo layer	64101 textbook sales representative
75110 terrazzo machine grinder	41403 textile and clothing consultant - home economics
73101 terrazzo mason	21101 textile chemist
75110 terrazzo mechanic helper	22100 textile colour technologist
73101 terrazzo mechanic	94130 textile colourist
75110 terrazzo polisher helper	51101 textile conservator
73101 terrazzo polisher	53123 textile designer
72014 terrazzo polisher-contractor	22100 textile dye technician
72014 terrazzo polishing contractor	22100 textile dyeing technician
73101 terrazzo setter	94130 textile dyer
72014 terrazzo setters foreman/woman	21399 textile engineer
73101 terrazzo worker	72400 textile fixer
73101 terrazzo, tile and marble setter	94130 textile fleecer - textile manufacturing
00011 territorial commissioner	94133 textile grader
41407 territorial council officer	53125 textile identification mark remover
41401 territorial resources economist	94133 textile inspector
60010 territory manager - sales	95105 textile machine cleaner
13100 test administrator	95105 textile machine feeder
94201 test and trim operator - electronic equipment manufacturing	72400 textile machine mechanic
21231 test automation engineer - software	72020 textile machine mechanics foreman/woman
94143 test baker - food and beverage processing	72020 textile machine mechanics supervisor
22222 test coordination analyst	
72205 test desk operator - telecommunications	
94200 test driver - automobile assembly	

95105 textile machine offbearer	32201 Thai massage therapist
72400 textile machine overhauler	94100 thallium recoverer
72020 textile machinery assembly foreman/woman	65329 theatre attendant
72405 textile machinery fitter	62029 theatre attendants supervisor
72400 textile machinery fixer	65100 theatre cashier
72400 textile machinery mechanic	50011 theatre company director
72400 textile machinery repairer	50011 theatre company manager
62100 textile machinery salesperson	51113 theatre critic
53125 textile mark remover	53123 theatre designer
53125 textile marker-down	50011 theatre director
90010 textile mill manager	53111 theatre high rigger
94130 textile napper - textile manufacturing	41409 theatre historian
94130 textile printer	52119 theatre technician
92015 textile processing foreman/woman	65329 theatre usher
92015 textile processing supervisor	11202 theatrical agent
94130 textile product bleacher	11202 theatrical business agent
95105 textile product labourer	64410 theft prevention officer
94133 textile product sampler	41200 theology department chairman/woman - university
94133 textile products inspector	41200 theology department chairperson - university
94132 textile products mender	41200 theology department head - university
53125 textile products patternmaker	21101 theoretical chemist
94132 textile products sewer	21100 theoretical nuclear physicist
94133 textile sampler	63200 therapeutic diet cook
94133 textile shader	31121 therapeutic dietitian
94130 textile spinner	31121 therapeutic nutritionist
90010 textile spinning-mill manager	32121 therapeutic radiological technician
90010 textile spinning-plant manager	31204 therapeutic recreationist
22302 textile technician	30010 therapeutic services administrator
22302 textile technologist	30010 therapeutic services director - psychiatric hospital
94133 textile tester	30010 therapeutic services director
94110 textile treatment solution mixer	32109 therapist assistant
94130 textile washer	33109 therapy aide
94131 textile weaver	32109 therapy assistant
94130 textile wringer	93101 thermal acid equipment operator
94219 textile-bags-turner operator	21301 thermal design engineer
94130 textile-dyeing and finishing machine operator	21100 thermal physicist
72400 textile-printing machine roller repairer - garment manufacturing	92100 thermal plant operator
94130 textile-twisting-frame operator	21301 thermal power engineer
52120 texture artist	22301 thermal station technician
94130 texturing machine tender - textile manufacturing	

72106 thermite welder	94130 thread spooler
92013 thermoforming foreman/woman - plastic manufacturing	95109 thread trimmer - garment manufacturing
94111 thermoforming operator	94130 thread winder
92013 thermoforming supervisor - plastic products manufacturing	94106 threader - metal machining
22230 thermographer-tester	94105 threader - metal products manufacturing
73401 thermographic printer	94131 threader - textiles
63211 thermology and electrolysis technician	94106 thread-grinder operator
94121 thermomechanical pulp assistant operator	94106 threading machine operator
94121 thermomechanical pulp operator	94106 thread-milling machine set-up operator
94219 thermometric systems capillary tube charger	92012 threshing department foreman/woman - tobacco processing
94219 Thermos bottle assembler	84120 threshing machine operator
94213 thermospray operator	55109 thrill performer
94219 thermostat and pressure switch calibrator	31101 throat specialist
94202 thermostat assembler - electrical equipment manufacturing	94201 through-hole assembler - electronic equipment manufacturing
92024 thermostat assembly foreman/woman	94201 through-hole assembler
94202 thermostat calibrator - electrical equipment manufacturing	64313 ticket agent - bus line
94202 thermostat calibrator	64313 ticket agent - cruise line
95109 thermostat capillary sealer	64313 ticket agent - transit station
94202 thermostat inspector	64313 ticket agent (except airline)
73209 thermostat repairer	64313 ticket and customer service clerk (except airline)
94100 thickener equipment tender - primary metal processing	64312 ticket and information agent - airline
84111 thinning saw operator - forestry	64313 ticket and information clerk (except airline)
84111 thinning saw operator	95106 ticket checker - tobacco processing
63200 third cook	64313 ticket clerk - railway
72603 third engineer - water transport	64313 ticket clerk (except airline)
94121 third hand - pulp and paper	62029 ticket clerks supervisor
41407 third secretary - foreign service	14100 ticket preparer - manufacturing
92100 third-class power engineer	62029 ticket sales supervisor
92100 third-class stationary engineer	65100 ticket seller - cashier
31101 thoracic surgeon	65329 ticket taker and usher
95103 thrasher feeder	62029 ticket taker supervisor
94106 thread cutter - metal machining	65329 ticket taker
94130 thread doubler	94123 tie and timber inspector
94106 thread grinder set-up operator	74200 tie axe unit operator - railway
94133 thread inspector - textiles	74200 tie crane operator - railway
95109 thread laster - shoe manufacturing	95109 tie maker
94130 thread spinner	74200 tie plate jack operator - railway
	74200 tie saw operator - railway
	74200 tie shear operator - railway

74200 tie tamper operator - railway	22112 timber scaler
74200 tie-bed-scarifier operator - railway	22112 timber technician
74200 tie-cutter operator - railway	94129 timber treating tank operator
74200 tie-cutting machine operator - railway	85110 timbering and steel prop setting helper
53124 tie-dye artisan	84100 timberman/woman - mines
74200 tie-end-remover operator - railway	84100 timberman/woman - underground mining
74200 tie-injector operator - railway	85110 timberman/woman helper - underground mining
74200 tie-placer operator - railway	95103 timber-treating tank helper
74200 tie-plate-placer operator - railway	72999 time lock expert
75101 tier lift truck operator	11201 time study analyst - services to management firms
72014 tile and marble contractor	22302 time study analyst
94103 tile burner - clay products	22302 time study technologist
95109 tile cutter	13102 timekeeper - payroll
53123 tile designer	21321 time-study engineer
73101 tile fitter	94213 tin can dipping enameller
73101 tile floor layer	94107 tin can inspector
73101 tile installer	94104 tin plate inspector and grader
94103 tile kilnman/woman - clay products	94213 tin plater
75110 tile layer helper	94213 tinned sheet coating machine operator
73101 tile layer	94219 tinsel maker operator
94103 tile maker - clay products	72102 tinsmith - sheet metal work
73101 tile mason	75110 tinsmith helper - construction
73101 tile mechanic	72102 tinsmith roofer
73110 tile roofer	72102 tinsmith
75110 tile setter helper	94102 tinted glassware maker
72014 tile, terrazzo and marble setting contractor	94110 tinter - chemical processing
73101 tilesetter	94107 tinware beader
72014 tilesetters foreman/woman	94213 tinware dipper and enameller
73101 tilesetters lead hand	94213 tinware dipping enameller
72014 tilesetters supervisor	75101 tipman/woman - surface coal mining
72014 tilesetting contractor	92012 tipping department foreman/woman - tobacco processing
72014 tilesetting supervisor	94140 tipping machine tender - tobacco processing
94120 tilt-hoist operator - sawmill	95104 tire and inner tube pressroom worker - rubber products manufacturing
94100 tilting table tender - metal processing	94112 tire assembler
85110 timber and steel prop salvager	94112 tire bagger
85110 timber and steel prop setter helper	95104 tire balance checker - rubber products manufacturing
62101 timber buyer	95104 tire band wrapper - rubber products manufacturing
22112 timber cruiser	
94120 timber cut-off sawyer - sawmill	
22112 timber marker	
22112 timber rider	

95104 tire bead picker - rubber products manufacturing	95104 tire tube checker - rubber products manufacturing
94112 tire breaker operator	95104 tire tube inserter - rubber products manufacturing
94112 tire buffer	95104 tire tube repairer - rubber products manufacturing
94112 tire builder	94112 tire valve worker
92013 tire building foreman/woman	94112 tire vulcanizer
92013 tire building supervisor	94112 tire-bagging machine tender
74203 tire changer - automotive service	94112 tire-retreading machine tender
94112 tire classifier	94110 tital liquor plant operator
95104 tire cleaner - rubber products manufacturing	22100 titanium pigment test analyst
95104 tire cleaner and painter - rubber products manufacturing	42200 title and lease clerk
94112 tire coverer	52120 title artist
94112 tire curer	42200 title examiner
60020 tire dealer	41101 title lawyer
94112 tire finisher	42200 title searcher
92013 tire finishing foreman/woman	94202 toaster assembler
92013 tire finishing supervisor	95106 tobacco baler
92013 tire inspection foreman/woman	94140 tobacco blender
92013 tire inspection supervisor	94140 tobacco blending line attendant
94112 tire inspector	62101 tobacco buyer
94112 tire maker	94140 tobacco casing fluid blender
95104 tire measurer - rubber products manufacturing	94140 tobacco casing fluid cooker - tobacco processing
72101 tire mould repairer	94140 tobacco conditioner tender
90010 tire plant manager	85101 tobacco curer
94112 tire rebuilder	92012 tobacco curing room foreman/woman
94112 tire recapper	85101 tobacco cutter - tobacco harvesting
95104 tire repair cementer - rubber products manufacturing	94140 tobacco cutter - tobacco processing
74203 tire repairer	94140 tobacco dryer - tobacco processing
94112 tire repairer-vulcanizer	82030 tobacco farm foreman/woman
92013 tire retread foreman/woman	85101 tobacco farm worker
94112 tire retreader	80020 tobacco farmer
94112 tire retreading inspector	94140 tobacco flavourer
92013 tire retreading supervisor	94143 tobacco grader
64100 tire salesperson - retail	84120 tobacco harvesting machine operator
92013 tire stock preparation foreman/woman	95106 tobacco hogshead liner
92013 tire stock preparation supervisor	94140 tobacco leaf blender
94112 tire touch-up and buff worker	94140 tobacco leaf cutter
94112 tire tread moulder	94143 tobacco leaf grader
92013 tire tube building supervisor	94140 tobacco leaf grinder

94140 tobacco leaf twister	72204 toll line repairman/woman - telecommunications
94140 tobacco packaging machine tender	72204 toll lineman/woman - telecommunications
95106 tobacco packer	14101 toll operator
85101 tobacco picker	72205 toll switchman/woman - telecommunications
85101 tobacco primer	72205 toll telephone exchange tester
92012 tobacco processing foreman/woman	12011 tollgate supervisor
95106 tobacco processing labourer	80020 tomato grower
92012 tobacco processing supervisor	94140 tomato juice extractor
64100 tobacco product clerk	85101 tomato picker
64101 tobacco product sales representative - wholesale	75110 tombstone erector
94140 tobacco roller	75110 tombstone setter
94143 tobacco sample puller	94219 tool and cutlery assembly inspector
64100 tobacco shop clerk	22301 tool and die designer
94140 tobacco shredder	72100 tool and die inspector
85101 tobacco stripper - tobacco harvesting	72010 tool and die inspectors foreman/woman
94140 tobacco stripper - tobacco processing	72010 tool and die inspectors supervisor
70012 tobacco warehouse manager	72101 tool and die maker apprentice
95106 tobacco weigher	72101 tool and die maker
94140 tobacco-blending machine operator	72010 tool and die makers foreman/woman
94140 tobacco-cutting machine tender	72010 tool and die makers supervisor
94140 tobacco-dressing machine operator - tobacco processing	72010 tool and die making supervisor
95106 tobacco-packing machine tender	41210 tool and die making teacher - community college
72400 tobacco-processing machine mechanic	72101 tool and die preparer
92012 tobacco-processing machine operator supervisor	72101 tool and die repairer
94140 tobacco-processing machine operator	72106 tool and die welder
92012 tobacco-processing workers foreman/woman	64100 tool and equipment rental clerk
92012 tobacco-stemming room foreman/woman	72100 tool and gauge inspector
95109 toe and heel sprayer - shoe manufacturing	22212 tool checker - drafting
94202 toggle switch assembler - electrical equipment manufacturing	14401 tool clerk
94110 toiletries moulder and compressor - chemical processing	12013 tool clerks foreman/woman
53124 tole painter	12013 tool crib supervisor
65329 toll booth attendant	22212 tool design draftsman
62029 toll bridge attendants supervisor	22301 tool designer
65329 toll collector	21301 tool engineer
72205 toll communication electrician	72101 tool fitter
72205 toll equipment man/woman - telecommunications	94106 tool grinder - metal machining
72204 toll line inspector - telecommunications	94106 tool grinder set-up operator
	12013 tool keepers supervisor
	94106 tool lapper - metal machining
	72101 tool maintainer

72101 tool maintenance man/woman	73209 torque wrench calibrator
72400 tool oiler and maintenance mechanic	22311 totalizator systems technician
72400 tool oiler and repairer	53124 totem pole carver
90010 tool production department manager	95109 touch-up cleaner - furniture finishing and refinishing
22302 tool programming technologist	94210 touch-up person - furniture finishing
72101 tool repairer	94210 touch-up worker - furniture finishing
72101 tool repairman/woman	73301 tour bus operator
14401 tool room attendant	64320 tour director
14401 tool room storeman/woman	64320 tour escort
14401 tool store clerk	92014 tour foreman/woman - pulp and paper
94106 tool-dresser operator	62022 tour guide supervisor
94204 tooling and metalworking machine try-out tester	64320 tour guide
72010 tooling foreman/woman	64101 tour operator - wholesale
72100 tooling inspector	60040 tour operator
72010 tooling inspectors foreman/woman	64101 tour package sales representative - wholesale
72010 tooling inspectors supervisor	40020 tourism and hotel school manager
72010 tooling supervisor	41402 tourism consultant - government
72101 toolmaker	40011 tourism development director - government services
82021 toolpusher - oil and gas well drilling and offshore drilling	40011 tourism development manager - government services
82021 toolpusher	41402 tourism development officer - government
72010 toolroom foreman/woman	41402 tourism development officer
72100 toolroom inspector	41402 tourism industry consultant
72100 toolroom machinist	41402 tourism industry specialist
72999 toolsmith	64409 tourism information officer
94219 toothbrush maker operator	64409 tourism information technician
94124 toothpick lathe operator	40011 tourism policy director
94124 toothpick-chopping machine tender	40011 tourism promotion director - government services
84100 top cager - underground mining	40011 tourism research manager - government services
94130 top dyer - textile manufacturing	41402 tourism services coordinator - government
94131 top knitter	41210 tourism trainer
94205 top-capping machine tender - electrical equipment manufacturing	64409 tourist booth attendant
72600 topographic survey pilot	65211 tourist camp attendant
22213 topographic survey technician	65310 tourist camp cleaner
22213 topographic survey technologist	64320 tourist guide
62100 topographical equipment salesperson	60031 tourist home operator
94131 topper - textiles	64409 tourist information clerk
72106 torch brazer	64310 tourist information counsellor
72106 torch brazing machine setter	
72106 torch welder	

64409 tourist information office attendant	53201 track and field team coach
64409 tourist information officer	53200 track athlete
75101 tow motor driver (except air transport)	72021 track boss - railway
70020 tow truck company manager	82020 track boss - underground mining
14404 tow truck dispatcher	74200 track broom machine operator - railway
73300 tow truck driver	74200 track dresser - railway
72601 tower controller - air traffic	84100 track equipment operator - underground mining
72105 tower crane erector	74200 track fitter - railway
72500 tower crane operator	72021 track foreman/woman - railway
72203 tower line maintainer - electric power systems	75211 track greaser - railway
72203 tower lineman/woman - electric power systems	53202 track judge
74200 tower operator - railway transport	74200 track layer - railway
94110 tower operator - soap	82020 track layer boss - underground mining
75100 tower-loader operator - marine cargo handling	74200 track maintenance worker - railway
74200 towerman/woman - railway transport	74200 track repairman/woman - railway
00011 town clerk	75211 track sweeper - railway
74102 town messenger driver	74200 track tamper - railway
21202 town planner	74200 track-liner operator - railway
00011 township clerk	73400 track-loader operator
21110 toxicologist	74200 track-maintenance-machine operator - railway
94219 toy assembler	74200 trackman/woman - railway yard
92024 toy assembly foreman/woman	84100 trackman/woman - underground mining
53123 toy designer - arts and crafts	74200 trackmobile operator - railway
22211 toy designer - industrial design	84100 trackperson - underground mining
94219 toy inspector	74200 track-surfacing machine operator - railway
94219 toy maker	74200 trackwalker - railway
92024 toy manufacturing foreman/woman	94112 traction belt builder - rubber products manufacturing
92024 toy manufacturing supervisor	94204 tractor assembler
60020 toy store manager	72500 tractor crane operator
64100 toy store salesperson	72401 tractor mechanic
94219 toy-stuffing machine operator	73400 tractor operator - construction
72204 tracer - telecommunications	84120 tractor operator - farm
94110 tracer powder blender	73400 tractor-excavator operator
94219 tracer-bullet-loading machine operator	92023 tractor-trailer assembly foreman/woman
53125 tracer-patternmaker	92023 tractor-trailer assembly supervisor
94151 tracer-transferrer	73300 tractor-trailer truck driver
53201 track and field athletes coach	41401 trade analyst
53201 track and field coach	40030 trade association manager
50012 track and field director	00011 trade commissioner
54100 track and field instructor	22303 trade contractor estimator - construction
53202 track and field judge	

40011 trade development director - government services	10030 traffic manager - telephone system
40011 trade development director	70020 traffic manager - transport
41401 trade economist	70020 traffic manager - transportation
60010 trade expansion manager	70020 traffic manager - water transport
41210 trade instructor - community college	21300 traffic operations engineer
40011 trade liaison director - government services	42100 traffic patrol officer
41402 trade promotion officer	14200 traffic rate clerk
40020 trade school director	52114 traffic reporter
00013 trade school general manager	40010 traffic safety administrator - government services
40020 trade school manager	52111 traffic sign painter
12103 trade show organizer	73200 traffic signal installer
12103 trade show planner	40040 traffic superintendent - police
13111 trademark administrative assistant	43202 traffic supervisor - by-law enforcement
42200 trademark agent	72024 traffic supervisor - motor transport
41101 trademark lawyer	14400 traffic technician - Canadian Armed Forces
13111 trademark secretary	22300 traffic technician - civil engineering
75110 trades helper - construction	22300 traffic technologist
41220 trades instructor - secondary school	94204 trailer assembler
72311 tradesman/woman cabinetmaker	92023 trailer assembly foreman/woman
10020 trading floor manager	65211 trailer campsite attendant
32200 traditional Chinese medicine practitioner and acupuncturist	94204 trailer frame assembler
32200 traditional Chinese medicine practitioner	72410 trailer mechanic
32209 traditional naturopath	72410 trailer mechanical systems repairer
12013 traffic and distribution supervisor	65211 trailer park attendant
70020 traffic and transportation assistant manager	62029 trailer park supervisor
14110 traffic checker	73311 train conductor
10030 traffic chief - telecommunications	72604 train dispatcher
14402 traffic clerk - broadcasting	72604 train dispatchers supervisor
14402 traffic clerk	73310 train engineer
14402 traffic control clerk	72604 train operator
12013 traffic control supervisor	14405 train scheduler
14110 traffic counter	65210 train service attendant
21300 traffic engineer	12201 trainee adjuster - insurance
20010 traffic engineering service manager - telecommunications	41210 trainee instructor
40040 traffic inspector - police	11200 training adviser
72024 traffic inspector - public transit system	11200 training and development consultant
73200 traffic light installer	10011 training and development manager
72203 traffic light repairer	10011 training chief
10030 traffic manager - cable systems	14102 training clerk
	41210 training consultant - industry

64100 training course salesperson	94203 transformer core assembler
41210 training development officer - Canadian Armed Forces	94203 transformer core lapper
42101 training firefighter	94203 transformer core maker
40020 training institute director	94203 transformer core stacker
41210 training instructor - college level	94203 transformer department lead hand
41210 training officer - company	94203 transformer fitter
11200 training programs supervisor	94203 transformer fitter-wirer
74200 trainman/woman - railway yard	94203 transformer gas detector relay assembler
84100 trainman/woman - underground mining	94203 transformer inspector
72023 trainmaster	94203 transformer maker
84100 trammerman/woman	72020 transformer repair shop foreman/woman
12110 transcriber	72422 transformer repairer
73209 transcribing machine servicer	72422 transformer repairman/woman
12110 transcriptionist	94202 transformer static plate assembler
94100 transfer bed operator - primary metal processing	95102 transformer stockroom attendant
14200 transfer clerk	94203 transformer subassembler
64101 transfer company agent	94203 transformer tapgear assembler
70020 transfer company manager	94203 transformer tester
95103 transfer equipment tender - wood processing	94203 transformer winder
84100 transfer hoist operator	94201 transistor assembler
73310 transfer hostler - railway	22213 transit man/woman - surveying
94131 transfer knitter	72024 transit mobile inspector
94106 transfer machine tender - metal machining	22213 transit operator - surveying
94150 transfer machine tender - printing	73301 transit operator - transportation
95103 transfer man/woman - wood processing	14405 transit planner
94120 transfer operator - sawmill	14405 transit scheduler
94150 transfer press operator	64313 transit station ticket agent
74200 transfer table operator - railway yard	00015 transit system general manager
42200 transfer-of-title clerk	72024 transit system inspector
94151 transferrer	42201 transition home worker - social services
94203 transformer accessories assembler	42201 transition house worker - social services
94203 transformer assembler	11201 transition management consultant
94203 transformer assembly clamper	14301 translation clerk
94203 transformer assembly coil clamper	51114 translator adaptor
94203 transformer builder	51114 translator
94202 transformer coil impregnator operator - electrical equipment manufacturing	51114 translator-reviser
94205 transformer coil impregnator	51114 transliterator
72422 transformer coil repairer	94204 transmission assembler
94203 transformer coil winder	94204 transmission assembly inspector
	94204 transmission assembly tester

94200 transmission installer - motor vehicle manufacturing	13201 transportation logistics coordinator
94200 transmission installer	70020 transportation logistics manager
72203 transmission lineman/woman - electric power systems	12013 transportation logistics supervisor
90011 transmission lines manager	70020 transportation management director
72410 transmission mechanic	70020 transportation manager
90011 transmission operations director - utilities	21202 transportation planner
52112 transmission operator	13201 transportation planning coordinator
52112 transmission studio control operator	40011 transportation policy director - government services
72410 transmission technician	41400 transportation program analyst
94200 transmission tester - motor vehicle manufacturing	40011 transportation programs manager - government services
72205 transmission tester - telecommunications	21202 transportation route planning analyst
10030 transmission traffic manager - telecommunications	14405 transportation route scheduler
92023 transmission-rebuilding shop foreman/woman	12013 transportation route schedulers supervisor
52112 transmitter operator	14405 transportation routes scheduler
52112 transmitting operator	41400 transportation safety analyst
94112 Transmix operator - rubber products manufacturing	14405 transportation schedule clerk
85121 transplanter - landscape maintenance	14405 transportation schedule maker
00015 transport and communications general manager	14405 transportation schedules writer
43202 transport compliance officer	70020 transportation superintendent
70020 transport department manager	65311 transportation vehicle scrubber
73300 transport driver	83121 trap boss - fishing
41401 transport economist	83121 trap fisherman/woman
13201 transport logistician	53121 trapeze artist
13201 transport logistics technician	85104 trapper
72402 transport refrigeration mechanic	64322 trapping guide
72402 transport refrigeration technician	00014 travel agency chief executive officer (CEO)
73300 transport truck driver	60020 travel agency manager
72410 transport truck mechanic	64310 travel agent
72410 transport truck trailer mechanic	70020 travel and relocation department manager
64313 transportation agent (except airline)	64310 travel centre counsellor
70020 transportation and traffic manager	62022 travel clerk supervisor
14405 transportation clerk	64310 travel consultant
13201 transportation coordinator	64310 travel counsellor
70020 transportation director	64320 travel escort
43202 transportation enforcement officer	64320 travel guide
21300 transportation engineer	64310 travel information agent
70020 transportation fleet manager	64310 travel specialist
	73200 travel trailer installer-servicer
	95105 traveller changer

64100 travelling salesperson - retail	73400 trenching machine operator
64101 travelling salesperson - wholesale	31301 triage nurse
83120 trawler captain	41100 trial court judge
84121 trawlerman/woman	21301 tribologist
65201 tray carrier attendant - hospital	41407 tribunal chairperson
94112 tread cutter machine operator - rubber products manufacturing	41407 tribunal member
94112 tread-cutting machine operator - rubber products manufacturing	41407 tribunal officer - government services
94124 treadle saw operator - woodworking	41407 tribunal officer
10010 treasurer and controller - finances	63211 trichologist
10010 treasurer	94200 trim and final production operator - motor vehicle manufacturing
11101 treasury analyst	94200 trim and hardware inspector - motor vehicle manufacturing
00010 Treasury Board president	92020 trim and hardware supervisor - motor vehicle manufacturing
14200 treasury clerk	94112 trim lathe operator - rubber products manufacturing
11101 treasury manager	94107 trim machine adjuster
00012 treasury vice-president - banking institution	94120 trim saw operator - sawmill
94123 treated pole tester - wood processing	94124 trim saw operator - woodworking
95102 treater helper - chemical processing	94120 trim sawyer - sawmill
92014 treating plant foreman/woman - wood processing	94142 trimmer - fish processing
72400 treatment plant maintenance mechanic	94210 trimmer - furniture finishing
22114 tree and shrub specialist	95105 trimmer - leather products manufacturing
85103 tree grafter - nursery	94141 trimmer - meat packing plant
80021 tree grower - nursery	95101 trimmer - metal products manufacturing
83110 tree harvester operator	95103 trimmer loader - wood processing
80021 tree nursery operator	94112 trimmer operator - rubber products manufacturing
83110 tree processor operator - logging	94120 trimmer operator - sawmill
84111 tree pruner - forestry	94124 trimmer operator - woodworking
85121 tree pruner - landscaping	94120 trimmer tender - sawmill
82031 tree removal contractor	94120 trimmerman/woman - sawmill
82031 tree service contractor	94120 trimmerman/woman
82031 tree service supervisor	94124 trimming and boring machine operator - woodworking
22114 tree service technician	94120 trimming machine operator - sawmill
84111 tree spacer - forestry	94124 trimming machine operator - woodworking
85121 tree sprayer	94120 trimming machine tender - sawmill
85121 tree surgeon helper	94133 trimming material inspector
85121 tree trimmer - landscaping	94105 trip hammer operator - metal forging
83110 treelength forwarder operator	94140 tripe cooker - food and beverage processing
83110 tree-length harvester operator	83121 troller fisherman/woman
75110 trench digger	
73400 trench-digging machine operator	

73301 trolley bus operator	73300 truck operator
73301 trolley coach driver	73300 truck owner operator
72410 trolley engine mechanic	64100 truck rental clerk
51122 trombonist	64100 truck salesperson
94219 trophy assembler	14405 truck scheduler
53123 trophy designer	94112 truck tire builder
80020 tropical fish breeder	94112 truck tire tread cutter
31100 tropical medicine physician	94204 truck trailer assembler
72011 trouble foreman/woman - telecommunications	92023 truck trailer assembly foreman/woman
74204 troubleshooter - pipeline	92023 truck trailer assembly supervisor
72011 troubleshooter foreman/woman - telecommunications	94204 truck trailer builder
14404 troubleshooting services dispatcher	94204 truck trailer final inspector
80022 trout farmer	72410 truck trailer mechanic
72410 truck and coach technician	72410 truck trailer repairer apprentice
72410 truck and trailer repairer	72410 truck trailer service technician
64101 truck and trailer sales representative - wholesale (non-technical)	60040 truck wash manager
72410 truck and transport mechanic	65311 truck washer
72410 truck and transport service technician	73300 trucker
72410 truck and transport vehicle mechanic apprentice	00015 trucking company general manager
72410 truck and transport vehicle repairer	72024 trucking contractor
94204 truck assembler	73300 truck-trailer driver
92023 truck assembly foreman/woman	72410 truck-trailer repairer
94204 truck assembly inspector	51122 trumpeter
94204 truck body builder	94124 trunk panel finisher - woodworking
72500 truck crane operator	94211 truss assembler
14404 truck dispatcher	94211 truss builder
75211 truck driver helper	10021 trust company branch manager
41210 truck driver trainer - community college	00012 trust company general manager
73300 truck driver	10021 trust company investment manager
72024 truck drivers foreman/woman	10021 trust company manager
72024 truck drivers supervisor	00012 trust company regional vice-president
72024 truck driver-supervisor	64400 trust company teller
43109 truck driving instructor	11109 trust officer
72024 truck fleet foreman/woman	11103 trust services salesman/woman
64100 truck leasing representative	95106 tub filler - food and beverage processing
75101 truck load weigher	51122 tuba player
75101 truck loader	94201 tube assembler - electronic equipment manufacturing
72410 truck mechanic	94100 tube drawer - primary metal processing
73300 truck mixer driver - construction	95100 tube drawer helper - primary metal processing
	94112 tube finisher - rubber products manufacturing

72104 tube fitter - structural metal and platework	94213 tumbling barrel painter
94122 tube machine operator - paper converting	95101 tumbling barrel tender - metal products manufacturing
95100 tube roller helper - primary metal processing	94213 tumbling barrel tender
94100 tube rolling mill operator - primary metal processing	95101 tumbling machine tender - metal products manufacturing
94112 tube skiver - rubber	12111 tumour registrar
94112 tube sorter - rubber reclaiming	72410 tune-up mechanic - motor vehicle
94100 tube straightener operator - primary metal processing	72410 tune-up specialist - motor vehicle
94201 tube tester	72106 tungsten inert gas (TIG) welder
94112 tube vulcanizer tender - rubber products manufacturing	22233 tunnel construction inspector
94105 tube-bending machine operator - metal fabrication	21300 tunnel engineer
94219 tube-cutting machine tender	94103 tunnel kiln operator - clay products
94112 tuber operator - rubber products manufacturing	94103 tunnel kilnman/woman - clay products
95105 tubing folder - textile processing	75110 tunnelling machine operator helper - construction
85111 tubing helper - oil field services	73400 tunnelling machine operator
94100 tubing machine tender - primary metal processing	72020 turbine assembly foreman/woman
94202 tubular heating element maker	94204 turbine assembly inspector and tester
94105 tubular metal products fabricator	72100 turbine blade machinist
95109 tubulating machine feeder - glass products manufacturing	72405 turbine fitter
94132 tufted carpet mender	92100 turbine operator - stationary engines
92015 tufted-carpet weaver supervisor	72301 turbine pipefitter
94131 tufting machine operator - textiles	80020 turf farmer
94131 tufting machine operator, carpets	22114 turfgrass management specialist
94131 tufting operator	82030 turkey farm foreman/woman
92015 tufting supervisor - textiles	80020 turkey producer
72602 tugboat captain	95109 turner - garment manufacturing
74201 tugboat deckhand	94124 turner - woodworking
14404 tugboat dispatcher	94124 turning machine operator - woodworking
72603 tugboat engineer	94124 turning sander tender - woodworking
72602 tugboat master	94140 turnip waxer - food and beverage processing
72602 tugboat skipper	65329 turnstile attendant
65320 tumble dryer tender - laundry and dry cleaning	74200 turntable operator - railway yard
94112 tumbler operator - rubber products manufacturing	55109 turntablist
95106 tumbler tender - food and beverage processing	94106 turret lathe operator - metal machining
95101 tumbler tender - metal products manufacturing	94106 turret lathe set-up operator
94112 tumbler tender - rubber products manufacturing	94140 turret machine tender - tobacco processing
94130 tumbler tender - textile manufacturing	94105 turret press operator
	94105 turret press set-up operator
	94105 turret punch press operator - metal fabrication
	43109 tutor - elementary school subjects

41201 tutor - post-secondary teaching assistant	22230 ultrasonic tester
43109 tutor - secondary school subjects	22230 ultrasonic testing technician
64321 twenty-one croupier	32122 ultrasonographer - medical
94130 twine dyer	32122 ultrasonography technician
94130 twine maker	32122 ultrasonography technologist
94130 twine-cropping machine tender	32122 ultrasound supervisor
94130 twine-shearing machine tender	32122 ultrasound technician
95105 twisted end finder - textile processing	32122 ultrasound technologist
94219 twisted wire brush assembler	22230 ultraviolet light testing technician
94219 twisted wire brush maker	94219 umbrella inspector
94130 twister operator - textile manufacturing	94219 umbrella maker
94130 twister tender - textile manufacturing	53202 umpire
92015 twisting foreman/woman - textiles	94121 unbleached pulp washer - pulp and paper
94130 twisting frame operator - textile manufacturing	94112 uncured tire inspector
94219 twisting machine tender	94112 uncured tire lubricator
94130 twisting operator - textile manufacturing	94112 uncured tire repairer
95109 tying machine tender	94213 undercoater - motor vehicle manufacturing
14112 type compositor	83100 undercutter operator - underground mining
94201 type-bar-and-segment assembler	94203 undercutting machine operator - industrial electrical equipment
14112 typecasting machine operator	75119 underground cable helper
14112 typesetter - typesetting	72203 underground cable splicer - electric power systems
72022 typesetters foreman/woman - printing	72204 underground cable splicer - telecommunications
72022 typesetters supervisor - printing	75119 underground cable splicer helper
14112 typesetting machine operator	22310 underground distribution technologist - electrical power
14112 typesetting machine tender	72011 underground electrical conduit foreman/woman
72106 type-soldering machine tender	21310 underground electrical distribution engineer
94201 typewriter aligner	85110 underground helper - mining
94219 typewriter assembly tester	75110 underground labourer - construction
94201 typewriter parts salvager	85110 underground labourer - mining
94219 typewriter tester	72203 underground lineman/woman - electric power systems
14100 typist	74204 underground lines inspector - utilities
14112 typographer apprentice	82020 underground mine foreman/woman
14112 typographer	85110 underground mine labourer
72022 typographers supervisor	80010 underground mine superintendent
	80010 underground mining superintendent
94219 ultrasonic cleaning machine tender	14401 underground tool crib attendant
62100 ultrasonic equipment salesperson	00011 undersecretary of state
22230 ultrasonic immersion tester	62201 undertaker assistant
22230 ultrasonic technician - non-destructive testing	

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94219 ultrasonic cleaning machine tender
62100 ultrasonic equipment salesperson
22230 ultrasonic immersion tester
22230 ultrasonic technician - non-destructive testing

62201 undertaker	72400 upgrading plant mechanic
72999 underwater contractor	95109 upholsterer helper
72999 underwater worker	63221 upholsterer
94132 underwear sewer	92015 upholsterers foreman/woman - fabric, fur and leather products manufacturing
12202 underwriter - insurance	62029 upholsterers supervisor
10020 underwriting department manager	64100 upholstery and furniture repair salesperson
11200 union adviser	95109 upholstery cleaner and finisher
00013 union association president	65311 upholstery cleaner
11200 union organizer	95105 upholstery marker and cutter
11200 union representative	63221 upholstery mechanic
33102 unit aide - medical	94212 upholstery moulder - plastic manufacturing
33102 unit assistant - medical	95109 upholstery parts sorter
14100 unit clerk	94212 upholstery presser - plastic manufacturing
12010 unit clerks supervisor	63221 upholstery repairer
21111 unit forester	95109 upholstery trimmer
51100 unit head librarian	92015 upholstery-cutting and sewing foreman/woman
52119 unit manager - motion pictures and broadcasting	95101 upsetter helper - metal fabrication
62020 unit supervisor - food services	94105 upsetter operator - metal forging
33102 unit support technician - medical	94105 upsetting machine operator - metal forging
94106 universal grinder set-up operator	94130 uptwister operator - textile manufacturing
13100 university admissions officer	94130 uptwister tender - textile manufacturing
41320 university counsellor	94100 uranium classifier operator
41200 university department head	94104 uranium ore evaluator
41201 university laboratory assistant	92010 uranium processing foreman/woman
41200 university lecturer	21202 urban and regional planner
70012 university maintenance manager	21111 urban forester
00013 university president	41409 urban geographer
41200 university professor	21202 urban planner
40020 university registrar	20011 urban planning and development assistant director - government services
40012 university research assistant director	20011 urban planning and development director - government services
41201 university research assistant	20011 urban planning and renewal director - government services
60031 university residence manager	41200 urban planning professor - university
41201 university teaching assistant	22300 urban planning technician
22301 unmanned aerial system (UAS) maintainer	21202 urban renovation planner
22301 unmanned aerial vehicle (UAV) operator - Canadian Armed Forces	21300 urban road system engineer
65329 unmanned aerial vehicle (UAV) pilot	74205 urban snow removal equipment operator - public works
22301 unmanned aerial vehicle (UAV) technician	41409 urban sociologist
94210 upfitter - furniture manufacturing	
93101 upgrader process operator - petroleum	

73301 urban transit operator	94219 vacuum bottle assembler
72024 urban transit system foreman/woman	95109 vacuum bottle exhaust machine feeder
70020 urban transit system manager	94202 vacuum cleaner assembler
31101 urologist	72421 vacuum cleaner repairer
75101 used building materials yard attendant	72421 vacuum cleaner repairman/woman
72411 used car renovator	72421 vacuum cleaner servicer
64100 used-car salesperson - retail	94201 vacuum evaporation process plater - electronic equipment manufacturing
22222 user acceptance tester	93100 vacuum furnace operator - primary metal processing
52120 user experience designer	93100 vacuum-degasser process operator - primary metal processing
22221 user support technician	94213 vacuum-metallizer tender
62029 ushers supervisor	65329 valet
14200 utilities billing clerk	14201 valuation clerk - financial sector
14100 utilities clerk	12203 valuation consultant
75119 utilities instrument mechanic helper	12203 valuator-appraiser
14404 utilities maintenance crew dispatcher	94112 valve buffer - rubber products manufacturing
74205 utility arborist	94107 valve spring coiler
14100 utility clerk	94107 valve spring winder
74205 utility forester	94132 vamp stitcher
95100 utility labourer - primary metal and mineral products processing	94200 van assembler
74204 utility locator	75101 van loader
95100 utility machine worker - primary metal and mineral products processing	75110 vanity and kitchen cupboard installer helper
74204 utility maintenance worker	73200 vanity and kitchen cupboard installer
95103 utility man/woman - pulp and paper	94111 vaporizer - plastic manufacturing
94201 utility operator - electronic equipment manufacturing	94201 variable capacitor tester
94200 utility operator - motor vehicle manufacturing	94201 variable resistor assembler
72400 utility plant maintenance mechanic	94124 variety saw operator - woodworking
74204 utility plant maintenance worker	60020 variety store manager
74204 utility pole inspector	14112 VariTyper operator
75119 utility pole installer	95102 varnish maker helper
74204 utility pole tester	94110 varnish maker
94200 utility repairer - motor vehicle manufacturing	94122 varnishing machine tender
74205 utility tree trimmer	32122 vascular sonographer
74205 utility tree worker	31101 vascular surgeon
	32123 vascular technologist
	65311 vat washer
	14201 vault attendant - financial sector
	14300 vault clerk - film library
	14200 vault clerk
	64410 vault custodian
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54100 vacation camp counsellor	
54100 vacation camp leader	
22110 vaccine technician	

72999 vault repairer	94123 veneer and plywood grader - wood processing
72999 vault servicer	94129 veneer clipper - wood processing
92013 V-belt building supervisor - rubber products manufacturing	94129 veneer cutter - wood processing
92013 V-belt foreman/woman - rubber manufacturing	95103 veneer dryer feeder
94143 veal grader	94129 veneer dryer tender
55109 veejay (VJ) - video performance artist	92014 veneer foreman/woman - wood processing
94140 vegetable canner - food and beverage processing	94123 veneer grader - wood processing
92012 vegetable canning supervisor	94123 veneer grader
94140 vegetable dryer tender - food and beverage processing	92014 veneer inspection foreman/woman - wood processing
82030 vegetable farm foreman/woman	94129 veneer jointer - wood processing
85101 vegetable farm worker	94129 veneer jointer operator - wood processing
80020 vegetable gardener	94129 veneer lathe operator
94140 vegetable grinder - food and beverage processing	94129 veneer matcher - wood processing
80020 vegetable grower	94129 veneer patcher - wood processing
22111 vegetable inspector	94129 veneer reel tender - wood processing
94140 vegetable oil extractor	94124 veneer sander - woodworking
85101 vegetable packer - farm	94129 veneer slicer-lather - wood processing
92012 vegetable packing supervisor	94129 veneer splicer tender - wood processing
85101 vegetable picker	94129 veneer strip cut-off sawyer - wood processing
85101 vegetable sorter - farm	94129 veneer taper - wood processing
85101 vegetable thinner	92022 veneering foreman/woman - furniture and fixtures manufacturing
65311 vehicle cleaner	92022 veneering shop foreman/woman - furniture and fixtures manufacturing
94213 vehicle cleaner-coater	94129 veneer-slicing machine operator - wood processing
14110 vehicle counter	94219 Venetian blind assembler
14402 vehicle servicing clerk	73200 Venetian blind installer
94105 vehicle spring repairer - metal forging	94219 Venetian blind maker
72410 vehicle technician - Canadian Armed Forces	65311 venetian blinds cleaner and repairer
63221 vehicle upholstery repairer	84100 ventilation man/woman - underground mining
65320 velvet steamer - laundry and dry cleaning	65311 ventilation system cleaner
94204 vending machine assembler	55109 ventriloquist
92023 vending machine assembly foreman/woman	51101 vertebrate zoology curator
75201 vending machine driver-supplier	51101 vertebrate zoology museum curator
73209 vending machine mechanic	94106 vertical boring mill operator - metal machining
73209 vending machine repairer	94106 vertical machining centre operator
64101 vending machine sales representative	94105 vertical press operator - metal fabrication
64101 vending machine services sales representative	94105 vertical press operator
94204 vending machine tester	94124 vertical resaw operator - woodworking
65109 vendor	94105 vertical roll operator - metal fabrication

94106 vertical-spindle milling machine operator - metal machining	22301 vibration technologist
94101 vessel operator - foundry	72106 vibration welder
42201 veteran services officer	85111 vibrator operator - seismic prospecting
42201 veterans' affairs field officer	75110 vibrator roller operator
40030 veterans' services director	75110 vibratory compactor operator
32104 veterinarian assistant	73400 vibratory road roller operator
31103 veterinarian practitioner	73400 vibratory roller operator
31103 veterinarian	40042 vice admiral
31103 veterinary anatomist	41310 vice squad detective
31103 Veterinary anesthesiologist	00011 vice-consul
65220 veterinary attendant	40020 vice-president - college or university
31103 veterinary bacteriologist	00012 vice-president - financial, communications and other business services
31103 veterinary dentist	00015 vice-president - goods production, utilities, transportation and construction
31103 veterinary dermatologist	00011 vice-president - government services
31103 veterinary epidemiologist	00013 vice-president - health, education, social and community services and membership organizations
62100 veterinary equipment and supplies salesperson	00014 vice-president - trade, broadcasting and other services
65220 veterinary helper	00014 vice-president and general sales manager - trade, broadcasting and other services
31103 veterinary inspector	31301 Victoria Order nurse
31103 veterinary internist	31301 Victorian Order of Nurses (VON) nurse
31103 veterinary laboratory diagnostician	52113 video and sound recorder
32104 veterinary laboratory technician	51102 video archivist
41200 veterinary medicine professor - university	53122 video artist
31103 veterinary microbiologist	52110 video camera operator
31103 veterinary neurologist	22311 video camera repairer - household and business equipment
31103 veterinary oncologist	22311 video cassette recorder repairer
31103 veterinary ophthalmologist	52112 video control operator
31103 veterinary parasitologist	51120 video director
21110 veterinary parasitology biologist	52113 video editor
31103 veterinary pathologist	22311 video equipment installation and repair technician - household and business equipment
31103 veterinary pharmacologist	64100 video equipment salesperson - retail
31103 veterinary physiologist	51120 video game art director
31103 veterinary radiologist	52111 video game artist
31103 veterinary surgeon	51120 video game producer
32104 veterinary technician supervisor	22222 video game tester
32104 veterinary technician	51120 video games project manager
32104 veterinary technologist	
31103 veterinary theriogenologist	
31103 veterinary virologist	
22230 vibration analysis technician - non-destructive testing	

51120 video illustrator - multimedia work	53124 violin maker
51113 video journalist	73209 violin repairer
51120 video maker	51122 violin teacher - private, conservatory or studio lessons
51120 video producer	51122 violinist
50011 video production company manager	21110 virologist
52113 video recorder	22110 virology technologist
52113 video recording technician	94110 viscose filter operator
64100 video rental clerk	92011 viscose filtration foreman/woman - chemical processing
60020 video rental store manager	94110 viscose maker
52113 video sound mixer	94110 viscose solution mixer
60020 video store manager	41403 visible minorities policy officer
52113 video technician	44101 visiting homemaker
52112 video transmission operator	31301 visiting nurse
52112 video transmission studio control operator	41200 visiting professor - university
52113 video-editing equipment operator	41200 visiting scholar - university
52110 videographer	41221 visiting teacher - elementary school
51113 videojournalist	64310 visitor information counsellor
52113 video-recording equipment operator	41402 visitor interpretation services coordinator - government
52113 videotape editor	53122 visual arts artist
52113 videotape postproduction editor	41200 visual arts department chairman/woman - university
52113 videotape recording (VTR) editor	41200 visual arts department chairperson - university
52113 videotape recording (VTR) operator	41200 visual arts department head - university
52113 videotape technician	53122 visual arts teacher (except primary, secondary, post-secondary education)
14112 videotext operator	64100 visual display stylist
95106 vinegar maker helper	52111 visual effects (VFX) artist
94140 vinegar maker	51120 visual effects (VFX) production manager
82030 vineyard foreman/woman	52111 visual effects artist
82030 vineyard foreman	51120 visual effects producer
80020 vineyard manager	51120 visual effects project manager
85101 vineyard pruner	51120 visual effects technical director - motion pictures
85101 vineyard worker	72601 visual flight rules air traffic controller
94110 vinyl and asbestos-blending machine tender	52120 visual graphic designer
94110 vinyl fabrics inspector	22230 visual inspection technician - welding
73113 vinyl floor installer	51114 visual language interpreter
73113 vinyl floor layer	64100 visual merchandiser
52111 vinyl lettering artist	32100 visual orthosis technician
73200 vinyl pool installer	32100 visual orthotic device technician
94200 vinyl roof installer - motor vehicle manufacturing	
73113 vinyl tile layer	
51122 viola teacher - private, conservatory or studio lessons	

21210 vital statistician	72202 voltage regulator maintainer - electrical power system
80020 viticulturist	64401 volume counter - mail and postal services
52114 VJ (video jockey) - television broadcast	00013 voluntary organization executive director
51122 vocal music teacher - private, conservatory or studio lessons	42201 volunteer manager
51122 vocal soloist	40030 volunteer services director
51122 vocalist	94140 Votator heat exchanger tender - food and beverage processing
41320 vocational counsellor - education	14200 voucher clerk
41321 vocational counsellor (except education)	92013 vulcanization supervisor - rubber products manufacturing
40010 vocational education director - government services	95104 vulcanization worker - rubber products manufacturing
31203 vocational evaluator occupational therapist	94112 vulcanizer - rubber products manufacturing
41321 vocational evaluator	92013 vulcanizing foreman/woman - rubber manufacturing
41320 vocational guidance counsellor - education	
41321 vocational guidance counsellor (except education)	
40021 vocational high school principal	
41220 vocational high school teacher	
41210 vocational institute teacher	
41321 vocational rehabilitation consultant	
41321 vocational rehabilitation counsellor	
41321 vocational rehabilitation professional	
41321 vocational rehabilitation specialist	
40030 vocational rehabilitation unit manager	
40020 vocational school administrator	
40020 vocational school director	
40020 vocational school manager	
41220 vocational secondary school teacher	
41220 vocational teacher - secondary school	
41210 vocational trainer	
40010 vocational training director - government services	
10011 vocational training director - human resources	
53121 voice coach	
14101 voice communication system operator	
51122 voice teacher - music	
51122 voice teacher - private, conservatory or studio lessons	
53121 voice-over actor	
21102 volcanologist	
53201 volleyball coach	
53200 volleyball player	
	W
	94122 wad compressor operator
	94201 wafer fabrication lab technician - electronic equipment manufacturing
	94201 wafer fabrication operator - electronic equipment manufacturing
	94201 wafer fabrication operator
	94205 wafer machine tender - electrical equipment manufacturing
	94201 wafer technician - electronic equipment manufacturing
	92014 waferboard foreman/woman
	92014 waferboard making foreman/woman - wood processing
	94129 waferboard press operator
	94205 wafering machine operator - electrical equipment manufacturing
	41401 wage analyst - economic policy
	11200 wage analyst
	10011 wage and salary administration manager
	83100 wagon drill operator - underground mining
	65200 waiter/waitress - drive-in restaurant
	65200 waiter/waitress - food and beverage services
	65200 waiter/waitress
	72500 walking bridge crane operator
	64320 walking tour guide
	73102 wall and ceiling installer

65310 wall washer	70012 warehouse operations manager
73102 wallboard installer	14401 warehouse person - parts and equipment
75110 wallboard sander	14400 warehouse receiver
73102 wallboard taper	14400 warehouse shipper
94110 wallpaper colour mixer helper	14400 warehouse shipping clerk
52120 wallpaper colourist	70012 warehouse superintendent
52120 wallpaper designer	12013 warehouse supervisor
73401 wallpaper gravure proof press operator	74100 warehouse worker - mail and parcel sorting
94219 wallpaper inspector	74100 warehouse worker - mail and postal services
94122 wallpaper lapper - paper converting	75101 warehouse worker - material handling
94122 wallpaper lapper	75101 warehouseman/woman
95109 wallpaper printer helper	75101 warehouseperson
94150 wallpaper printer	70012 warehousing manager
94122 wallpaper reeler - paper converting	94130 warp beamer - textile manufacturing
94122 wallpaper reeler	95105 warp beamer helper - textile processing
73401 wallpaper rotogravure press operator	94131 warp drawer - textiles
64100 wallpaper salesperson - retail	94131 warp drawer-in helper - textiles
94150 wallpaper sample sheet cutter-marker	94130 warp dresser - textile manufacturing
94150 wallpaper sample sheet marker	94130 warp end dresser - textile manufacturing
33102 ward aide - medical	94130 warp end dyer - textile manufacturing
14100 ward clerk - hospital	94131 warp knitting machine tender
31301 ward nurse	94131 warp placer - textiles
13112 ward secretary - hospital	94130 warp spinner - textile manufacturing
13112 ward secretary	94133 warp tension tester - textiles
31300 ward supervisor - nursing	94131 warp tier-in - textiles
53111 wardrobe assistant	94131 warp tier-in
53111 wardrobe attendant	94130 warp twister tender - textile manufacturing
64201 wardrobe consultant	94131 warp tying machine tender - textiles
52119 wardrobe coordinator	94130 warper - textile manufacturing
52119 wardrobe master/mistress	94130 warper operator - textile manufacturing
52119 wardrobe supervisor	14100 warranty clerk
95100 ware cleaner - clay products manufacturing	92012 wash house foreman/woman - food and beverage processing
94103 ware dresser - concrete, clay and stone products	94111 wash line operator - plastic recycling
70012 warehouse and distribution centre manager	94110 washer and dryer - chemical processing
14401 warehouse checker	94121 washerman/woman - pulp and paper
14401 warehouse clerk - parts and equipment	94110 wash-house and recovery equipment operator - chemical processing
12013 warehouse distribution supervisor	95106 washing and waxing machine tender - food and beverage processing
12013 warehouse foreman/woman	94202 washing machine assembler - electrical equipment manufacturing
75101 warehouse keeper helper	
70012 warehouse manager	

65320 washing machine extractor operator - laundry and dry cleaning	62202 watch repairer
65320 washing machine extractor tender - laundry and dry cleaning	62202 watch repairman/woman
65320 washing machine operator - laundry and dry cleaning	64100 watch sales clerk
72421 washing machine repairman/woman	64100 watch salesperson - retail
72421 washing machine servicer	72602 watchkeeping officer - water transport
94130 washing machine tender - textile manufacturing	62202 watchmaker
94121 washing-screening operator - pulp and paper	92011 water and sanitation-utilities equipment operating occupations foreman/woman
94210 wash-off operator - furniture finishing	21300 water and sewer engineer
65310 washroom cleaner	92011 water and sewer foreman/woman
41400 waste diversion consultant	92101 water and wastewater technician
41400 waste diversion program coordinator	72600 water bomber pilot
41400 waste diversion program manager	75210 water bus captain
95105 waste machine feeder - textile processing	75210 water bus master
95105 waste machine feeder	75210 water bus operator
90011 waste management director	21101 water chemist
41400 waste management program coordinator	73200 water conditioner repairer
41400 waste reduction and recycling officer	73200 water conditioner servicer
41400 waste reduction education program officer	90011 water department director
41400 waste reduction program coordinator	90011 water distribution manager
21320 waste treatment engineer	22300 water distribution systems technician
94100 waste treatment operator - metal processing	90011 water filtration plant manager
92101 waste treatment plant operator	72400 water filtration plant mechanic
92011 waste treatment supervisor	92101 water filtration plant operator
21120 waste water treatment plant inspector	92011 water filtration plant supervisor
90011 waste water treatment system director	92101 water gate operator
92101 wastewater collection operator	73200 water heater installer
92101 wastewater collection systems operator	73200 water heater servicer
92101 wastewater treatment operator	21120 water inspector
92101 wastewater treatment plant operator	95102 water intake tender - utilities
92101 wastewater treatment plant worker	95102 water intake tender
94219 watch assembler	94200 water leak examiner - motor vehicle manufacturing
94219 watch assembly inspector	94200 water leak inspector - motor vehicle manufacturing
94219 watch balance wheel adjuster	74204 water main maintenance man/woman
94219 watch crystal edge grinder	74204 water main maintenance worker
94219 watch escapement put-in-beat adjuster	21300 water management engineer
94219 watch final assembly inspector	74204 water meter installer
94219 watch inspector	73209 water meter repairer
94219 watch movement tester	75110 water pipe installer
62202 watch repairer apprentice	92101 water plant pump operator

90011 water pollution control director	72021 water well drilling contractor
92011 water pollution control foreman/woman	72021 water well drilling foreman/woman
94204 water pump assembler	72021 water well drilling supervisor
21101 water purification chemist	72501 water well drilling technician
92011 water purification plant foreman/woman	92101 water, fuels and environment technician - Canadian Armed Forces
92101 water purification plant operator	53122 watercolourist
22100 water purification technician	53201 water-polo coach
21300 water resources engineer	53200 water-polo player
14404 water service dispatcher	75110 waterproofer - construction
73200 water softener installer	73110 waterproofer and roofer
73200 water softener repairer	75110 waterproofer helper
73200 water softener servicer	94219 waterproofer
73200 water softening system servicer	72014 waterproofers foreman/woman
90011 water supply director	72014 waterproofing foreman/woman
74204 water supply maintenance worker	65211 waterslide attendant
74204 water system maintenance worker	73200 water-softening system installer
21300 water systems engineer	73200 water-softening system repairer
75210 water taxi captain	72604 waterway traffic checker
75210 water taxi master	72021 waterworks construction foreman/woman
75210 water taxi operator	22233 waterworks construction inspector
70020 water transport manager	90011 waterworks director
92011 water treatment chief operator	95102 waterworks labourer
21300 water treatment engineer	74204 waterworks maintenance worker
92011 water treatment lead operator	90011 waterworks manager
92011 water treatment operations supervisor	92101 waterworks pump house operator
92101 water treatment operator	92101 waterworks pumping station operator
92011 water treatment plant foreman/woman	74204 waterworks repairman/woman
72400 water treatment plant mechanic	90011 waterworks superintendent
94100 water treatment plant operator - primary metal processing	74204 waterworks utility servicer
92101 water treatment plant operator	94201 wave soldering machine operator - electronic equipment manufacturing
92101 water treatment plant process technician	94201 wave soldering machine operator
92011 water treatment plant superintendent	94110 wax bleacher
92011 water treatment plant supervisor	63211 wax depilation specialist
92101 water treatment systems operator	63211 wax depilator
74204 water utilities plant maintenance man/woman	95102 wax moulder
92101 water utility operator	95109 waxer - explosives manufacturing
72501 water well driller apprentice	94130 waxer - textile manufacturing
75110 water well driller helper	94101 wax-pattern assembler and repairer - foundry
72501 water well driller journeyman/woman	94101 wax-pattern assembler and repairer
72501 water well driller	

94101 wax-pattern mouldmaker - foundry	52120 Web page designer
11102 wealth advisor	73401 Web press operator - printing
42102 weapons engineering technician	73401 Web pressman/woman - printing
42102 weapons technician	21234 Web programmer
64100 wearing apparel salesperson - retail	22220 Web site administrator
22214 weather briefer	21233 Web site designer
22214 weather chart plotter	21234 Web site developer
22214 weather forecast presentation technician	51110 Web site editor
21103 weather forecaster	22220 Web technician
52114 weather reporter	21234 Webmaster
22214 weather station operations technician	63202 wedding cake decorator
73200 weather strip installer	64201 wedding consultant
73200 weather stripper	64201 wedding services consultant
72400 weave changer - textile manufacturing	82031 weed control foreman/woman
92015 weave room foreman/woman - textile processing	82030 weed control service contractor - agriculture
92015 weave room supervisor - textile processing	94130 weft straightener - textile manufacturing
92015 weave room supervisor	43202 weigh station operator - by-law enforcement
53124 weaver - arts and crafts	94140 weigh tank tender - food and beverage processing
94107 weaver - metal products manufacturing	94110 weigher - chemical processing
94131 weaver - textiles	95104 weigher - plastic and rubber manufacturing
94107 weaver, wire lattices	95109 weigher-counter
92015 weaving foreman/woman	95109 weigher-manufacturing
92015 weaving inspector foreman/woman - textile processing	21390 weight and balance engineer - aerospace
94133 weaving inspector	64201 weight loss adviser
53124 weaving instructor (except education)	64201 weight loss consultant
92015 weaving room supervisor - textile processing	53200 weight-lifter
92015 weaving room supervisor - textiles	54100 weightlifting instructor
92015 weaving supervisor	60040 weight-loss clinic manager
21234 web application developer	22231 weights and measures inspector
10022 Web communications manager	83121 weir fisherman/woman
51111 Web content specialist	22230 weld tester
51113 Web critic	93200 welded assemblies fitter-tester - aircraft assembly
52120 Web designer - graphic design	72106 welder apprentice
21233 Web designer	72010 welder foreman/woman
21234 Web developer	95101 welder helper
52120 Web graphic designer	72106 welder operator
21234 Web integrator	72010 welder supervisor
21234 Web manager	72106 welder
10022 Web marketing manager	72106 welder-assembler

75110 welder-fitter helper - construction	72021 well drilling contractor
95101 welder-fitter helper - manufacturing	72021 well drilling supervisor
95101 welder-fitter helper	21332 well logging engineer
72106 welder-fitter	83101 well puller - oil field services
72010 welding contractor	85111 well puller helper - oil field services
21322 welding engineer	82021 well services crew supervisor - oil and gas drilling
72400 welding equipment mechanic	82021 well services crew supervisor - oil field services
72400 welding equipment repairer	82021 well site consultant - oil and gas
62100 welding equipment salesperson	83101 well testing operator - oil and gas drilling
72106 welding lay-out man/woman	83101 well testing operator
72400 welding machine mechanic	84101 well treatment blender operator - oil field services
95101 welding machine operator helper	85111 well treatment helper - oil field services
72106 welding machine operator	85111 well treatment helper
72301 welding pipefitter	84101 well treatment pump operator - oil field services
94107 welding rod-extruder operator	41404 wellness consultant
94107 welding rod-extruder tender	41404 wellness coordinator
72010 welding supervisor	41404 wellness program coordinator
41210 welding teacher - technical institute	92101 well-point pump operator
22101 welding technician - mining	21102 wellsite coordinator - geology
22101 welding technologist	95109 welt butter and tacker - shoe manufacturing
95100 welding-rod-extruder operator helper - primary metal processing	95105 welt maker - hat manufacturing
42201 welfare and compensation officer	95105 welt-trimming machine tender - hat manufacturing
41401 welfare economist	93101 wet explosives mixer
21120 welfare institute inspector - public health	94100 wet plant recovery equipment tender - primary metal processing
40030 welfare manager	94140 wet process miller - food and beverage processing
41301 welfare organization counsellor	94219 wet suit maker
40030 welfare organization department director	92012 wet-starch foreman/woman - food and beverage processing
40030 welfare organization director	14200 wharf clerk
40030 welfare organization manager	14200 wharfinger
42201 welfare organization supervisor	75100 wharfman/woman - marine cargo handling
41403 welfare policy analysts supervisor	80020 wheat farmer
40010 welfare services administration director - government services	80020 wheat grower
40010 welfare services administrator - government services	80020 wheat producer
40010 welfare services director - government services	72410 wheel alignment and brake mechanic
42201 welfare worker	72410 wheel alignment and brake specialist
12102 well and facilities asset analyst	94200 wheel and tire installer - automobile assembly
10029 well and facilities asset manager	
72021 well digging contractor	
72021 well digging supervisor	

72020 wheel shop foreman/woman - railway equipment	73209 wind instrument repairer
95101 wheelabrator operator - metal products manufacturing	22301 wind tunnel test technician
95101 wheelabrator operator	22301 wind tunnel test technologist
94204 wheelchair lift assembler	95105 winder cleaner - textile processing
74201 wheelsman/woman	72400 winder fixer - textile manufacturing
94219 whisk assembler	94121 winder operator - pulp and paper
94110 white lead mixer	94130 winder tender - textile manufacturing
94101 white-metal caster - foundry	72422 winder-electrician
94210 whitener - furniture finishing and refinishing	94121 winderman/woman - pulp and paper
64322 whitewater rafting guide	95105 winding frame cleaner - textile processing
62101 wholesale buyer	72400 winding machine fixer - textile manufacturing
60020 wholesale establishment manager	94130 winding machine operator - textile manufacturing
64101 wholesale purveyor	94219 winding machine tender - other products manufacturing
64101 wholesale trade representative	94130 winding machine tender - textile manufacturing
64101 wholesale trade representatives supervisor	92014 winding room foreman/woman - pulp and paper
00014 wholesaler - broadcasting	94203 windings inspector - large electric motors manufacturing
60020 wholesaler	94212 windmill blade assembler
22220 Wide area network (WAN) administrator	94212 windmill blade inspector
22220 wide area network (WAN) technician	72400 windmill repairer
53111 wig assistant - motion pictures, broadcasting and performing arts	73200 window air conditioner installer
94219 wig hair preparer	72421 window air conditioner mechanic
52119 wig hairdresser - motion pictures, broadcasting and performing arts	75119 window air conditioner repairer helper
94219 wig maker	72421 window air conditioner repairer
63210 wig stylist	94219 window and door assembler - PVC window and door manufacturing
53100 wilderness interpreter	94219 window and screen assembler
21110 wildlife biologist	94219 window blind mounter
22110 wildlife biology technician	75110 window caulker
21110 wildlife helminthologist	65311 window cleaner
21110 wildlife naturalist	64100 window display designer
53110 wildlife photographer	73200 window film installer
22110 wildlife resources technician	73200 window installer
22110 wildlife technician	73111 window sash and frame glazier
22110 wildlife technologist	73200 window shade installer
94130 willow operator - textile manufacturing	94219 window shade mounter
42200 wills and estates law clerk	62024 window washer supervisor
13111 wills and estates legal assistant	65311 window washer
42200 wills and estates paralegal	60040 window washing service manager
41400 wind energy analyst	62024 window washing supervisor

54100 windsurfing instructor	94100 wire drawing machine operator
14401 wine cellar attendant	73200 wire fence erector
94140 wine fermenter - food and beverage processing	95101 wire finisher
94140 wine pasteurizer	94107 wire lampshade frame maker
64101 wine sales representative - wholesale	73102 wire lather
65200 wine server	94107 wire lattice and wire mesh weaver
65200 wine steward	94107 wire lattice weaver
60020 wine store manager	95101 wire loom helper
64100 wine store sales clerk	94107 wire loom operator
94143 wine tester	94107 wire loom setter
65200 wine waiter/waitress	94107 wire loop machine operator
94140 winemaker - food and beverage processing	94107 wire mesh fence-making machine operator
94143 wineries fermentation inspector	94107 wire mesh gate assembler
94143 wineries gauger	94107 wire mesh knitter
92012 winery cellar master	75110 wire mesh setter
94140 winery cellarman/woman - food and beverage processing	94107 wire netting weaver
90010 winery manager	94104 wire products inspector
94140 winery-press operator	72400 wire repairer - textile manufacturing
93200 wing inspector - aircraft assembly	94100 wire roller operator - primary metal processing
93200 wing marry-up mechanic - aircraft assembly	94107 wire rope maker
93200 wing tank mechanic - aircraft assembly	94107 wire rope sling and cable splicer
64322 winter camping guide	94100 wire sample former
94140 winterizer tender - food and beverage processing	94103 wire saw operator - concrete, clay and stone products
94201 wire and harness assembler	94107 wire screen cutter and trimmer
94107 wire basket maker	94107 wire screen former
94201 wire bonder - electronic equipment manufacturing	94107 wire screen maker
95109 wire border assembler - furniture assembly	94107 wire screen weaver
94107 wire bundle machine operator	94100 wire sheather - primary metal processing
94107 wire cable assembler and tester	94201 wire soldering operator
94107 wire cable stretcher and tester	72203 wire splicer - electric power systems
94213 wire coater	95101 wire spooler - metal products manufacturing
94202 wire connector - electrical equipment manufacturing	94205 wire stripper - electrical equipment manufacturing
95100 wire drawer helper	94104 wire tester and inspector - primary metal processing
94100 wire drawer operator	94213 wire tinner
94100 wire drawer	95101 wire weaver helper
92010 wire drawing foreman/woman - primary metal processing	94107 wire weaver
95100 wire drawing helper	72106 wire welder
	94201 wire wound resistor calibrator - electronic equipment manufacturing

94201 wire wound resistor calibrator	42201 women's centre program supervisor - social services
94201 wire wound resistor inspector - electronic equipment manufacturing	42201 women's centre supervisor - social services
94213 wire-coating equipment operator	64100 women's clothing sales clerk
94107 wire-coiner operator	41403 women's employment policy consultant
94107 wire-crimping machine operator	53123 women's fashion designer
94201 wire-cutting machine operator - electronic equipment manufacturing	64200 women's garment alterations seamstress
72101 wire-drawing die maker	64200 women's garment custom seamstress
21311 wireless communications network engineer	64200 women's hat maker - milliner
82021 wireline field supervisor - oil field services	41403 women's issues lobbyist
85111 wireline helper - oil field services	41403 women's program coordinator
85111 wireline helper	41403 women's shelter program coordinator
83101 wireline operator - oil field services	42201 women's shelter supervisor - social services
83101 wireline operator trainee	42201 women's shelter supervisor
83101 wireline operator	41403 women's status policy consultant
94203 wireman/woman - industrial electrical equipment	64100 women's wear sales clerk
72205 wireman/woman - telecommunications	94211 wood barrel stave assembler
94107 wire-netting machine operator	94124 wood blank sawyer
94205 wire-numbering machine tender - electrical equipment manufacturing	53122 wood block artist
94213 wire-paint-coating machine tender	94211 wood box blank former
94107 wire-pairing machine tender	94211 wood box maker
72205 wirer - telecommunications	72420 wood burner installer
94203 wirer/woman - industrial electrical equipment	72420 wood burner maintainer
94107 wire-rewinding machine tender	94211 wood case maker
94107 wire-weaving loom setter	94211 wood casket frame assembler
94205 wireworker - electrical equipment manufacturing	94210 wood casket maker
94107 wireworks weaver - metal products manufacturing	94211 wood casket moulding setter
94201 wire-wrapping machine operator - electronic equipment manufacturing	94211 wood casket top frame fitter
94201 wiring and assembly operator	21101 wood chemist
94201 wiring and soldering operator - electronic equipment manufacturing	95103 wood chip unloader
72200 wiring electrician	94211 wood crate maker
22233 wiring inspector - domestic installation	84110 wood cutter - logging
22233 wiring inspector - industrial installation	94110 wood distillation and charcoal distiller
94124 wobble saw operator - woodworking	94211 wood door patcher - wood products manufacturing
42201 women's centre coordinator - social services	94124 wood driller - woodworking
40030 women's centre manager	94210 wood finisher - furniture finishing and refinishing
	72421 wood fireplace servicer
	94211 wood flask maker - foundry
	73113 wood floor covering layer
	73113 wood floor installer

94129 wood flour miller	94124 wood products flarer
72013 wood frame building foreman/woman	92024 wood products foreman/woman
72310 wood frame carpenter	94211 wood products gluer
72310 wood frame house carpenter	94211 wood products inspector - wood products manufacturing
72420 wood furnace installer	95109 wood products machine feeder
72311 wood furniture and fixtures patternmaker	94124 wood products machine tender
94210 wood furniture assembler	94121 wood pulp caustic liquor maker
94210 wood furniture frame assembler	95103 wood room labourer - pulp and paper
94211 wood furniture repairer - wood products manufacturing	94124 wood sander - woodworking
94211 wood golf club head finisher	92022 wood sanders foreman/woman - furniture and fixtures manufacturing
94210 wood grainer - furniture finishing and refinishing	94211 wood sash and door grader
94219 wood heel finisher - footwear manufacturing	94124 wood saw operator - woodworking
94124 wood lathe turner - woodworking	92022 wood sawing foreman/forewoman
73102 wood lather	53122 wood sculptor
94211 wood machining inspector	73110 wood shingle roofer
92022 wood machining workers foreman/woman - furniture and fixtures manufacturing	72014 wood shingle roofers foreman/woman
94123 wood marker - wood processing	72014 wood shingle roofing contractor
94123 wood measurer - wood processing	73110 wood shingler
94123 wood measurer	72310 wood shipwright
72311 wood model maker	73200 wood siding applicator
94211 wood modular housing fabricator	94211 wood stave inspector
72311 wood mould maker	94211 wood tank assembler
94129 wood particle dryer tender	94129 wood treater operator
94129 wood particles mixer-dryer tender	94129 wood treating worker - wood preserving
72311 wood pattern inspector	94124 wood turner - woodworking
72311 wood pattern repairman/woman - foundry	94124 wood turning lathe operator - woodworking
72311 wood patternmaker	72420 wood-burning appliance installer
72013 wood patternmakers foreman/woman	72420 wood-burning system installer
94211 wood prefab housing assembler	53124 woodcarver
94123 wood processing grader	94124 wood-carving machine operator
94123 wood processing inspector	94211 wooden barrel builder
95103 wood processing labourer	94211 wooden barrel end fitter
94211 wood products assembler	94124 wooden barrel header - woodworking
94211 wood products assembling inspector	94211 wooden barrel header
94211 wood products assembly inspector	94211 wooden barrel heading fitter
94211 wood products assembly lead hand	94211 wooden barrel heading matcher and assembler
94211 wood products bench assembler	92024 wooden barrel maker foreman/woman
94211 wood products factory assembler	94211 wooden barrel maker
95109 wood products finisher - furniture manufacturing	94124 wooden barrel-header fitter - woodworking

94211 wooden basket maker	94211 wooden prefabricated housing production worker
94219 wooden boat assembly inspector	94211 wooden reel assembler
94219 wooden boat inspector	94211 wooden sash and door assembler
72310 wooden boatbuilder	94211 wooden sash and door inspector
94211 wooden box assembler	94211 wooden shuttle inspector
95109 wooden box bander	94124 wooden stave turner - woodworking
94211 wooden box bench hand	94210 wooden table assembler
94211 wooden box builder	94211 wooden tank bottom sawyer and assembler
94211 wooden box inspector	94211 wooden tank stave assembler
92024 wooden box maker foreman/woman	94211 wooden truss maker
94211 wooden bucket stave assembler	92024 wooden truss making foreman/woman - manufacturing
94211 wooden case assembler	73200 wooden window sash installer
94211 wooden case builder	92024 woodenware assembler foreman/woman
94210 wooden casket assembler	94211 woodenware assembler
94211 wooden casket inspector	80010 woodlands manager
94211 wooden casket top frame setter	92022 wood-machining quality-control inspectors foreman/woman - furniture and fixtures manufacturing
95109 wooden coat hanger shaper feeder	94129 wood-oiling machine operator - wood processing
94211 wooden crate assembler	95103 wood-preserving plant labourer
94211 wooden crate builder	82010 woods foreman/woman
94211 wooden door assembler	80010 woods superintendent
94211 wooden door inspector	94124 woodsawyer - woodworking
94211 wooden door maker	92014 wood-treating machine foreman/woman
94211 wooden door repairer - wood products manufacturing	92014 wood-treating plant foreman/woman
73200 wooden fence erector	94124 wood-turning lathe operator - woodworking
94210 wooden furniture assembly repairer	92022 woodworking machine department foreman/woman - furniture and fixtures manufacturing
94210 wooden furniture polisher - furniture finishing	95109 woodworking machine feeder
94211 wooden golf club facer	92022 woodworking machine operator foreman/woman - furniture and fixtures manufacturing
94211 wooden hoop maker	94124 woodworking machine operator
94219 wooden hull caulker - boat assembly	92022 woodworking machine operators supervisor - furniture and fixtures manufacturing
94211 wooden keg builder	94124 woodworking machine setter
94211 wooden keg maker	94124 woodworking machine set-up operator
94211 wooden ladder assembler	95109 woodworking shop helper
94211 wooden ladder builder	94130 wool batcher
94211 wooden manufactured home production worker	94130 wool blender
94211 wooden manufactured housing production worker	
94211 wooden pallet assembler	
94211 wooden pallet maker	
73200 wooden panel installer	
94211 wooden panel matcher	

94133 wool fleece grader	65320 wrapper - laundry and dry cleaning
94133 wool grader	95109 wrapper - manufacturing
94130 wool mixer	94112 wrapper operator - rubber products
94130 wool opener and duster	94205 wrapper-stacker operator - electrical equipment manufacturing
95109 wool puller - hide and pelt processing	95101 wrapping machine operator - wire products manufacturing
94130 wool scourer	94205 wrapping machine tender - electrical equipment manufacturing
82030 wool shearing contractor	53124 wreath maker
92015 wool sorter and grader foreman/woman - textile processing	72500 wrecking crane operator
94130 wool sorter	72021 wrecking crew foreman/woman
92015 wool sorting and grading foreman/woman	53200 wrestler
94130 wool washer	94130 wringer operator - textile manufacturing
95105 woollen mill labourer	94130 wringer tender - textile manufacturing
12010 word processing service coordinator	95109 wrinkle remover - shoe manufacturing
12010 word processing unit supervisor	43200 writ server - bailiff
14100 word processor clerk	51111 writer
21321 work measurement engineer	51121 writer-composer-performer
11201 work reorganization consultant	51110 writer-editor
41400 work site analyst	
41400 work site auditor	
11201 work study analyst	
11201 work study analysts supervisor	
75210 workboat operator	
12201 workers' compensation adjuster - insurance	
41403 workers' compensation officer	
41403 workers' compensation policy analyst	
41321 workforce adjustment officer	
41321 workforce development officer	
72999 working model maker - aircraft	
62200 working sous-chef	
83101 workover rig operator - oil field services	
41210 workplace trainer	
85101 worm harvester	
85101 worm packer	
85101 worm picker	
85101 worm picker-packer	
94140 wort cooler - food and beverage processing	
94140 wort maker - food and beverage processing	
92015 woven fabric inspection foreman/woman - textile processing	
94121 wrapline operator - papermaking	
	X
	32121 X-ray (radiology) technician
	62100 X-ray equipment salesperson
	94153 X-ray film developer
	32121 X-ray machine operator - medical
	21100 X-ray physicist
	94153 X-ray plate developer
	32121 X-ray technician
	Y
	13200 yacht broker
	82020 yard boss - mining and quarrying
	14404 yard clerk
	74200 yard coupler - railway
	73310 yard engineer - railway
	92014 yard foreman/woman - pulp and paper
	72023 yard foreman/woman - railway
	64100 yard goods salesperson - retail
	95103 yard labourer - pulp and paper

75211 yard labourer - railway transport	95106 yeast-processing plant labourer
73310 yard locomotive engineer - railway	50012 YMCA (Young Men's Christian Association) general director
82020 yard supervisor - mining and quarrying	50012 YMCA (Young Men's Christian Association) general secretary
74200 yard switchman/woman - railway transport	50012 YMCA (Young Men's Christian Association) programs director
74200 yard trainman/woman	54100 yoga instructor
74200 yard worker - railway	94140 yogurt maker
94102 yardage controller - glass products manufacturing	00013 young men's christian association (YMCA) executive director
83110 yarder operator - logging	40030 young offender services director
83110 yarding engineer - logging	31301 youth centre nurse
74200 yardman/woman - railway	14103 youth court clerk
72023 yardmaster - railway	41100 youth court judge
94133 yarn and spun yarn inspector	42201 youth development coordinator
94130 yarn conditioner	42201 youth hostel coordinator
94130 yarn doubler - textile manufacturing	60031 youth hostel manager
94130 yarn dryer	41406 youth recreational and leisure activities consultant
94130 yarn dyer	41406 youth recreational and leisure activities counsellor
94133 yarn examiner	41406 youth recreational and leisure activities program coordinator
94130 yarn finisher	42201 youth services worker
95105 yarn handler	42201 youth worker - social services
94133 yarn inspector	42201 youth worker
94130 yarn mercerizer	
92015 yarn preparation supervisor - textiles	
95105 yarn salvager	
94130 yarn soaker	
94130 yarn spinner	
94130 yarn spooler	
94133 yarn tester	
94130 yarn winder tender	
94130 yarn-drying machine tender	
94130 yarn-plaiting equipment tender	
94130 yarn-texturing machine tender - textile manufacturing	
94140 yeast cutter	
94140 yeast dryer	
94140 yeast emulsifier tender - food and beverage processing	
94140 yeast maker	
95106 yeast processing labourer	
94140 yeast room operator	
95106 yeast sampler - food and beverage processing	
94140 yeast separator - food and beverage processing	
	Z
	65211 zamboni driver
	94100 zinc billet caster
	95100 zinc cathode puller
	94100 zinc cell operator
	94100 zinc chloride separator tender
	95100 zinc drosser
	95100 zinc dust maker
	95100 zinc electrolysis lead burner helper
	94213 zinc galvanizer
	94100 zinc pressure leach operator
	72010 zinc roofers foreman/woman
	94100 zinc vapour condenser
	64322 zipline guide

94219 zipper assembler
94219 zipper chain assembler
94219 zipper chain machine tender
94219 zipper inspector
94107 zipper links machine tender
94107 zipper links maker
94219 zipper machine operator
94219 zipper machine tender (except plastic products)
94219 zipper manufacturing inspector
95109 zipper repairer
94219 zipper-cutting machine operator
94212 zipper-forming machine tender - plastic products manufacturing
94132 zipper-sewing machine operator
60010 zone manager - sales
43202 zoning enforcement officer
43202 zoning examiner
43202 zoning inspector
21202 zoning officer - land use
65220 zoo animal attendant
65220 zoo attendant
22110 zoo foreman/woman
53100 zoo interpreter
22110 zoo supervisor
31103 zoo veterinarian
20011 zoological garden director
20011 zoological park director
22110 zoological technician
22110 zoological technologist
21110 zoologist
41200 zoology professor - university
41301 zootherapist