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OCCUPATIONAL CLASSIFICATION MANUAL
CENSUS OF CANADA, 1971

Based on
CANADIAN CLASSIFICATION AND DICTIONARY
OF OCCUPATIONS

VOLUME I

DOMINION BUREAU OF STATISTICS

OCCUPATIONAL CLASSIFICATION MANUAL
CENSUS OF CANADA, 1971

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OF OCCUPATIONS

VOLUME I

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PREFACE

The Occupational Classification Manual is designed for use in the Census of Canada, 1971. Traditionally, the census occupational classification used in the immediately preceding census is revised to take account of changes in the occupational composition of the labour force resulting from industrial and technological developments in the decade. The present manual represents a much more fundamental departure from the past, however, in that it is based upon the Canadian Classification and Dictionary of Occupations (CCDO)—a multipurpose occupational classification system which provides definitions for the constituent occupations and groups. The CCDO has been developed in recent years through a co-operative project of the Department of Manpower and Immigration and the Dominion Bureau of Statistics.

The change from an occupational classification system designed purely for census use to a multipurpose or "standard" classification has important consequences. It brings occupational distributions of census data into a general system that includes such related statistics as those derived from im-

migration records, employment placement programmes, vocational education and training programmes and the like. In addition, it results in a basic revision of the grouping system used by the census for occupational data. The new system of grouping is the result of field work carried out by the Department of Manpower and Immigration over a number of years involving job analysis and occupational analysis. This, along with DBS experience in past censuses, provides a practical and useful system geared to the needs of researchers and others concerned with modern occupational programmes and problems.

This Manual was prepared in the Central Classifications Section of DBS by Mrs. Suzanne Fortey and Mrs. Bernice Richardson under the immediate supervision of Rodger O. Lee.

The CCDO project from which it was derived is carried on under the joint direction of Messrs. J.E. Andoff for the Department of Manpower and Immigration and Neil L. McKellar for the Dominion Bureau of Statistics.

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INTRODUCTION

This Occupational Classification Manual, has been prepared primarily for use in the Census of Canada, 1971. It is designed as a coding manual and contains comprehensive indexes of occupational titles to obtain consistent coding of occupations enumerated in the census. Other occupational statistics obtained from such sources as immigration, employment placement and vocational training programmes are often used in conjunction with census occupational data, although heretofore no standard occupational classification system has been available for general use. Such a standard is now available in the form of the Canadian Classification and Dictionary of Occupations which has been used as the basis for this Manual.¹

The Canadian Classification and Dictionary of Occupations (CCDO)

The CCDO provides for Canada a multipurpose instrument for use in manpower research; the formulation of manpower policies; support of employment and educational programmes; for statistical survey purposes, including census taking; and for operational activities such as employment placement, employment counselling, immigration and promoting mobility of workers within the country. It is anticipated that the CCDO will increase the quantity and improve the quality and usefulness of occupational information in Canada by standardizing the occupational categories used in different programmes and consequently the occupational statistics and other information derived from them.

Volume I of the CCDO provides a systematic classification structure for all occupations in Canada. The classification structure has four levels providing successively finer detail, as follows: major groups, minor groups, unit groups and occupational titles. Definitions have been developed at all levels. Volume II deals with occupational qualification requirements.

The various groups of the classification contain occupations found to have a desirable degree of homogeneity with respect to "kind of work performed" as determined by analysis of the duties and tasks of the constituent occupations. "Kind of work performed" has been selected as the basic principle of the classification because it is the most prevalent characteristic encountered when occupations are described and analysed.

The Census Occupational Classification Manual Based on the CCDO

The occupational classification structure in this manual, being almost identical with that of the

CCDO, differs considerably from the one used in the 1961 Census, although the basic principle of "kind of work performed" has been retained. This classification contains 22 major groups, 81 minor groups and 486 unit groups having 2-digit, 3-digit, and 4-digit codes respectively. Such traditional major groups as "Professional and Technical Occupations" and "Craftsmen, Production Process and Related Workers" have been sub-divided into less heterogeneous groupings at the major group level.

Users of census occupational data have experienced difficulty because of the size and heterogeneity of residual or "not elsewhere classified" groups. The CCDO has been designed to minimize the number of occupations in residual groups and this practice is carried through to the present manual. Despite this, such residual groups as those for managers and labourers could still be relatively large in census tabulations due to the problems in enumeration of occupational information. At present it is planned to further subdivide such groups by industrial categories at the tabulation stage. A cross classification by industry has been found useful in these cases because the industrial distribution of such residual occupational groups gives some indication of the kinds of work included. A list of the proposed tabulations is given in an appendix to this manual. Publication will depend upon the actual numbers reported.

Related Classifications

For statistical purposes the classification of occupations does not stand alone but must be understood as related to the classifications of industries and that of status (class of worker) — as self-employed (E or OA), employee (W) or unpaid family worker (NP).² Each of these statistical classifications supplements the others in presenting a rounded picture of the nature of a person's job.

As indicated above, an **occupation** is described in terms of the **kind of work performed** irrespective of the kind of business in which it is carried on or the "status" of the individual performing it.

The **industry** in which the individual is employed is determined by the **principal kind of economic activity of the establishment** in which he works. For this purpose an "establishment" may consist of an individual working on his own account but usually it is a factory, mine, farm, store or other place of business or an institution having certain basic records. An industrial classification is used to classify establishments according to branches of economic activity, i.e. industries. The information obtained

² These categories are identified in Question 37 of the census questionnaire as follows:

Working for wages, salary, tips or commission?	(i.e. W)
Working without pay in a family business or farm?	(i.e. NP)
Self-employed without paid help?	(i.e. OA)
Self-employed with paid help?	(i.e. E)

¹ This census manual was published some months earlier than the complete CCDO. To meet census requirements (i.e. census coding was scheduled for June-August 1971) coding materials were needed in the earlier months of that year. The CCDO was scheduled for completion in May 1971 with publication in the fall of that year.

for an individual on the census and which is coded according to the kind of work he does (occupation) and the kind of establishment in which he works (industry), reveals more clearly the nature of the individual's work than would either a distribution by occupation or industry alone.

An individual's relationship to the enterprise in which he is engaged, i.e. his **status** (class of worker), provides another means of describing his work. In this case, the grouping system depends upon the **kind of service performed by the individual** as indicated by the form of remuneration he receives. The self-employed depend upon a residual return in the form of profit while employees are paid wages or salaries and unpaid family workers receive no set remuneration. The addition of status to the other two classifications gives a rounded picture of the nature of the individual's employment. Each of the three foregoing classification systems is independent, yet together they form a related system. The Standard Industrial Classification Manual, 1970 (SIC) published by the Dominion Bureau of Statistics is the industrial counterpart of this Manual.

The qualifying word(s) for an industry or an industrial process attached to most of the occupational titles in the Manual are not intended as a description of the industry in which the individual concerned is employed. They serve to amplify the occupational titles and to distinguish identical occupational titles in entirely different work contexts.

For example, no relationship exists between the work performed by a "Blender" in cheese manufacturing and a "Blender" in tobacco product manufacturing. The former is classified in Unit Group 8223 - Milk Processing Occupations and the latter in Unit Group 8293 - Tobacco Processing Occupations. In many cases the industrial process concerned may not be the principal activity of the establishment in which the occupation is found. Thus the qualifier is not, strictly speaking, an "industrial designation". Nonetheless, knowledge of the kind of establishment in which the individual works is often useful information in coding his occupation as to kind of work performed.

The qualifiers indicating industry or industrial process used in this Manual differ from those used in the CCDO and shown after its occupational titles. The CCDO list of "industrial designations" was developed by aggregating various SIC groups. This Manual makes use of terms from the SIC as well as other words considered helpful in qualifying the occupation for census coding purposes.

The qualification "Any Industry" is attached to a considerable number of the occupational titles listed in this Manual. It is used in connection with occupations that are found in practically all industries or those carried on in a number of industries too extensive to list. If the occupational title is known to be used differently in a particular industry, it is given the qualification "Any, Except...".

EXPLANATORY NOTES

The Population Census Questionnaire and methods for the 1971 Census differ in several important respects from those used in the 1961 Census. For the first time information is being obtained by self-enumeration from a major part of the population. Certain questions, including those on economic characteristics are being obtained on a sample basis rather than from all individuals in the population. The question on occupation is composed of three parts resulting in more information which is expected to permit more precise coding. Despite all these changes, however, the occupational descriptions given on the census documents will inevitably be quite broad and general. To attempt to classify these returns according to an elaborate and detailed classification system would imply more precision than the census data can be expected to possess. For this reason, as mentioned earlier, only the first three levels of the classification structure, represented by two, three and four digit codes, are used in this Manual.

This Occupational Classification Manual, Census of Canada 1971 is published in two volumes. Volume I contains the classification structure and definitions for the major, minor and unit groups. Volume II contains the classification structure and two separate indexes. A Classified Index lists in-

dividual occupational titles arranged alphabetically within their respective major, minor and unit groups. An Alphabetical Index presents the occupational titles in alphabetical order, irrespective of group association.

This Manual differs in some very minor respects from the complete CCDO in that a few additional groups have been provided at the various levels and a few have been deleted. These structural changes have been made solely to meet census needs. For census purposes, occupations must be combined, providing statistics at different levels of aggregation, reflecting the general character of the original information; this is unlike employment placement, for example, where very detailed occupational information is needed and where interviews can be held to provide such precise information.

The following changes from the complete CCDO will be encountered by users of this Manual:

- (a) Major Group 37 - Occupations in Sport and Recreation is listed as Minor Group 337 for census purposes.
- (b) Unit Group 1173 - Organization and Methods Analysts has been deleted and the occupations

included with Unit Group 2145—Industrial Engineers.

- (c) New Unit Group 2513—Nuns and Brothers, n.o.r. has been created.
- (d) Unit Groups 3351—Writers and Editors, Publication and 3353—Writers and Editors: Radio, Television, Theatre and Motion Pictures have been combined into a new Unit Group 3352—Writers and Editors.
- (e) Unit Group 6131—Managers: Hotel, Motel and Other Accommodation has been created.
- (f) Unit Groups 6161—Laundering Occupations and 6163—Dry Cleaning Occupations have been combined into a new Unit Group 6162—Laundering and Dry Cleaning Occupations.
- (g) Unit Groups 7111—General Farmers, 7113—Animal Farmers and 7115—Crop Farmers have been combined into a new Unit Group 7112—Farmers.
- (h) Unit Groups 7181 to 7193 and 7198, dealing with farming, horticultural and animal husbandry occupations, have been combined into a new Unit Group 7182—Farm Workers.

Some 25,000 separate occupational titles comprise the Alphabetical Index in Volume II of this Manual. Many of these titles are in inverted form to facilitate coding. Groupings of these occupational titles make up the various unit groups of the classification. Within each major group, one or more minor groups are identified and within each minor group, one or more unit groups. A functional relationship is reinforced by means of the coding system. For example:

- Major Group 61 —Service Occupations
- Minor Group 611 —Protective Service Occupations
- Unit Group 6111—Fire Fighting Occupations
- Unit Group 6112—Policemen and Detectives, Government

It should be noted that the major group code is repeated at all levels and the minor group code is repeated at the unit group level.

Within relevant minor groups, provision has been made whenever possible to assign a distinct code number to particular occupational groups viz. "Foremen (or Supervisors)"; "Inspectors, Testers, Graders and Samplers"; and "Occupations in Labouring and Other Elemental Work". For example:

- 6120 Supervisors, Food and Beverage Preparation and Related Service Occupations
- 8110 Foremen, Mineral Ore Treating Occupations
- 8116 Inspecting, Testing, Grading and Sampling Occupations, Mineral Ore Treating
- 8118 Occupations in Labouring and Other Elemental Work, Mineral Ore Treating

As a general rule, the final digit of the 4-digit code identifies each of these types of occupational groups. Thus a zero signifies a category of supervisor or foreman; 6 usually signifies an inspector; and 8 a labourer. In order to maintain flexibility in the classification system, the use of 6 and 8 is not universally applied to the above groups and, where not needed for inspectors and labourers, these digits have been used without any special significance.

Special Rules for Census Coding Regarding Certain Occupations

Apprentices. — As a general rule apprentices (or learners, trainees) are classified with the occupations for which they are being trained. Thus, an apprentice plumber is classified as a plumber, an apprentice draughtsman as a draughtsman, and so on. An exception is made, however, in the case of some professional occupations. Student nurses are not classified in Unit Group 3131—Nurses, Graduate, Except Supervisors, a special Unit Group 3133—Nurses-in-training being provided for them. Articled clerks in offices of chartered accountants are classified in Unit Group 4131—Bookkeepers and Accounting Clerks, conversely interns are classified with Unit Group 3111—Physicians and Surgeons.

Helpers. — As a general rule helpers are classified either with the tradesmen or other occupations they support, or they are classified as labourers in the appropriate unit groups entitled "Occupations in Labouring and Other Elemental Work". The determining factors, as explained in Volume I of the CCDO, are the educational and vocational requirements for each occupation. For those "helpers" listed in the Alphabetical Index these factors have been taken into consideration. For helpers not listed, the most important duties of the occupation should be used as a guide to classification.

Foremen and Supervisors. — These titles are used to describe a wide range of supervisory occupations in both goods and service producing industries. Some of these occupations are closely associated with the workers supervised and may involve performance of some of the work or may involve a purely supervisory function including assigning work and coordinating the efforts of a group of workers, sometimes a group carrying out a variety of types of work. Commencing with Minor Group 337—Occupations in Sport and Recreation, the first unit group within each minor group is reserved for supervisors (foremen). Four exceptions have been made to this rule viz. in Minor Groups 611—Protective Service Occupations; 614—Personal Service Occupations; 731—Fishing, Hunting, Trapping and Related Occupations; and 915—Water Transport Operating Occupations. In Minor Groups 611 and 614 supervisory staff are classified with the workers they supervise. In Minor Groups 731 and 915, the occupation of captain of a vessel is classified in its own special group. The last digit of the four-digit code designating supervisors (foremen) is characteristically a zero (0).

Labourers. — In the 1961 Census Classification, all labourers except those engaged in the primary industries (i.e. agriculture, fishing, logging or mining) were coded to one class. In the CCDO, however, each relevant minor group contains a unit group "Occupations in Labouring and Other Elemental Work" to accommodate occupations requiring little educational development or vocational preparation. Most four-digit codes designating occupations in labouring and other elemental work have a final digit eight (8).

Members of the Armed Forces. — Two unit groups are provided for members of the Armed Forces; 6116—Commissioned Officers and 6117—Other Ranks. As the Canadian Armed Forces are now a unified force, rank structures are identical for all three environments—land, sea and air. Those holding the rank of Officer Cadet or higher are coded to 6116, while those having the rank of Chief Warrant Officer or lower are coded to 6117. Traditional ranks such as Commodore or Petty Officer are translated into the singular rank structure. For census purposes members of the Armed Forces are not coded to the kind of work they do, even though it may be reported on the census questionnaire. Coders simply determine the individual's rank and apply the relevant code number.

Civilian employees at the Department of National Defence are, of course, coded elsewhere in the classification structure by kind of work performed.

Members of Religious Orders. — Those members of religious communities or orders who are primarily engaged in occupations other than those in Major Group 25—Occupations in Religion (e.g. in teaching, nursing, social welfare work, sewing, bookbinding, cooking or farming) should be classified in accordance with the kind of work performed. Thus, for census purposes, Major Group 25 is intended to include only those primarily engaged in performing religious functions.

Managers. — A distinction is drawn between managers in large organizations and small shop-owners or businessmen managing their own businesses as working proprietors.

Managers in large organizations include executives and senior officials of government, social institutions, scientific institutions and business corporations. The essential function in the work performed in these occupations is that of policy-making. Such managers are classified to Major Group 11—Managerial, Administrative and other Related Occupations.

Departmental managers of retail chain or department stores, store managers of retail chain stores and store managers of supermarket chains are not classified in Major Group 11 since they are considered to be primarily occupied with carrying out

policy that is established at headquarters. Accordingly they are classified as supervisors in the relevant minor groups.

Managers in the professional field such as in law, accounting or pharmacy are classified according to work performed. In most instances they will be coded to the unit group related to their profession rather than Major Group 11.

Special managerial groups have been created for hotel or motel managers and for farm managers. These are Unit Group 6131—Managers: Hotel, Motel and Other Accommodation and Unit Group 7131—Farm Management Occupations.

Proprietors. — Proprietors (or owners, co-owners, partners) are differentiated in the census enumeration into two categories i.e.: Proprietor (OA) and Proprietor (E). In some cases "employers" are coded differently than "own accounts" in the same kind of business. As a general rule, proprietors are coded to the occupations associated with the particular business or industry concerned, either as supervisors or as members of the relevant trade, craft or profession. In other cases all relevant proprietors are classified to the trade or craft concerned, as illustrated by the following examples:

Proprietor (E or OA) and Manager—Barber Shop, beauty shop (classified in the Unit Group 6143—Barbers and Hairdressers).

Proprietor (E or OA) and Manager—Custom tailoring shop (classified in Unit Group 8553—Tailors and Dressmakers).

Proprietor (E or OA) and Manager—Photographic studio (classified in Unit Group 3315—Photographers and Cameramen).

Proprietor (E or OA) and Manager—Shoe repair shop (classified in Unit Group 8561—Shoe-making and Repairing).

Examples of Proprietors (E or OA) whose main work activity is taken to be either supervisory, or purely administrative, and who are coded as supervisors within their respective minor groups are:

Proprietor (E or OA) and Manager—Art gallery (classified in Unit Group 5130—Supervisors: Sales Occupations, Commodities). **Note:** Managers of public art galleries are called "curators" and are coded to Unit Group 2350.

Proprietor (E or OA) and Managers—Rooming house, Tourist cabins, Motel, etc. (classified in Unit Group 6131—Manager: Hotel, Motel and Other Accommodation).

The general assumption is that Proprietor (OA) i.e. **without paid employees** is primarily engaged in the trade or craft indicated. Therefore, a person reported as an own-account contractor in carpentry,

painting, plumbing, etc. is classified with the appropriate tradesmen. An own-account taxi-cab or truck-owner is classified in Unit Group 9173 - Taxi Drivers and Chauffeurs or Unit Group 9175 - Truck Drivers. An own-account artificial flower-maker is classified in Unit Group 8599 - Other Product Fabricating, Assembling and Repairing Occupations, n.e.c.

As a general rule, a Proprietor (E) i.e. **with paid employees** is deemed to be concerned mainly with supervising others in the running of his business and is, therefore, coded to the supervisors (foremen) unit group within the appropriate minor group. Examples are:

Broker (E) - Real estate (classified in Unit Group 5170 - Supervisors: Sales Occupations, Services).

Proprietor (E) - Auto repair shop (classified in Unit Group 8580 - Foremen, Mechanics and Repairmen except Electrical).

Proprietor (E) - Taxi cab operation (classified in Unit Group 9170 - Foremen, Motor Transport Operating Occupations).

Census coding of occupation for the various categories of proprietor is complex. When in doubt, the coder is instructed to consider all factors including income, status, and main work activity of the individual in relation to his business and the nature and scope of the business itself before a decision is made.

Teachers and Instructors. - Persons engaged in the teaching profession, whether as professors, school teachers, or instructors in other types of institutions are coded to Major Group 27. (This excludes physical education instructors - not in schools - who are coded to Unit Group 3370 - Coaches, Trainers, Instructors and Managers, Sport and Recreation).

Persons primarily engaged in giving on-the-job training as their regular employment are considered to be distinct from foremen and are, therefore, classified in an appropriate unit group within Minor Group 279 - Other Teaching and Related Occupations.

Presidents and Deans of Faculties in universities as well as principals in all types of schools, including business colleges, are considered to be administrators and are coded to Unit Group 1133 - Administrators in Teaching and Related Fields.

Abbreviations

A list of abbreviations used in this volume is given on page 15 and is, for the most part, self-explanatory. Particular attention, however, should be given to the abbreviations "n.s.", "n.e.c.", "n.e.s." and "n.o.r.". "N.s." means "not stated" or "not specified" in the census return. "N.e.c." means "not elsewhere classified" in the occupational classification. "N.e.s." means "not elsewhere

specified" in the occupational classification. "N.o.r." means "not otherwise reported" on the census return.

Not stated (n.s.) usually indicates that other similar but more specific occupational titles are listed in the Alphabetical Index. The code symbol assigned to the title, qualified by this abbreviation, is to be used only when the reported occupation together with any other entry on the census questionnaire (particularly the industry entry) does not indicate one of the more precise titles shown. A case in point is the title "8273 - Washer n.s. - Textile Mill" which appears in the Alphabetical Index along with such titles as "Washer, Fabric - Textile Mill" and "Washer, Brush - Textile Mill". In coding "Washer", therefore, the coder carefully examines the list of "Washers" given and only uses the code for "Washer n.s." if the one reported does not fit the other titles shown.

In the Index "n.s." is frequently implied, e.g. when the title "Manager" or "Foreman" (unqualified) is followed by a dash and in industry qualification. In such cases, therefore, the coder does not use the assigned occupational code if the specific kind of manager or foreman is reported in the occupation entry of the census questionnaire. That is, if the questionnaire indicates a foreman in wholesale trade is, in fact, a "Shipping Foreman", then he should be classified to Unit Group 4150 - Supervisors: Material Recording, Scheduling and Distributing Occupations and not Unit Group 5130 - Supervisors: Sales Occupations, Commodities. It is the nature of the work done in the department of the establishment in which a person works, not the principle activity of the establishment, which qualifies the occupation. For example, if the occupation is reported as "Manager" and the kind of business entry is "Printing and Publishing (circulation department)" such a person would be classified to Unit Group 1137 - Sales and Advertising Management Occupations. The coder assesses other relevant criteria to determine whether the person concerned is performing a management occupation of the type included in Major Group 11, or a "supervisory" type of occupation.

If an occupation reported on the questionnaire is not listed in any form in the Index, it is necessary to classify it in the most appropriate unit group of the relevant minor group. An occupation is classified to the residual (n.e.c.) unit group of its relevant minor group if it cannot be ascertained that it belongs in any particular unit group: for example, "Metal Ceiling Hanger - Construction" cannot be classified in any of the specific unit groups within Minor Group 878/879 - Other Construction Trades Occupations and must, therefore, be classified in Unit Group 8799 - Other Construction Trades Occupations, n.e.c.

If a reported occupation cannot be assigned to a specific minor group but is identified as coming

within the general definition of a particular major group, then that occupation is classified in the residual (n.e.c.) unit group of the last minor group within that major group. For example, "Ivory Carver—Any Industry" falls within the general definition of Major Group 83—Machining and Related Occupations but it is not specific to any one of the relevant minor groups of "machinists". It is therefore assigned code 8399 which is the residual unit group of the last minor group (839) within Major Group 83.

If the situation should arise whereby an occupation could conceivably be classified in two or more minor groups within one major group, then that occupation will likewise be assigned to the last residual (n.e.c.) unit group of the last minor group within that major group; for example, "Button Maker—Button Mfg." could be classified in more than one minor group in Major Group 85—Product Fabricating Assembling and Repairing Occupations and must be classified in the last minor group (859). To advance one step further, if an occupation is so described that it might be assigned to any of two or more major groups (usually due to lack of specificity) then it is assigned to one of the appropriate unit groups of Minor Group 991—Occupations Not Elsewhere Classified of the last major group (99): for example, "Equipment Cleaner—Any Industry" could be in several major groups and is, therefore, classified in Unit Group 9919—Other Occupations, n.e.c.

Major Group 99 thus serves a dual purpose; first as a residual for occupations that cannot, for some reason, be included in any one of the foregoing major groups; and secondly, to accommodate situations such as that cited in the example above where more than one major group is involved.

Not Elsewhere Specified (n.e.s.) is used interchangeably with "n.e.c." It is a holdover from the 1961 Classification whereas "n.e.c." is used exclusively in the CCDO.

Not Otherwise Reported (n.o.r.) covers such cases as those in which the lay occupations of members of religious orders who are primarily engaged in performing lay duties are not reported on the census questionnaire. "N.o.r." was used in the title of Unit Group 2513—Nuns and Brothers, n.o.r. to permit inclusion of lay occupations for which the type of work performed is not indicated on the questionnaire. In coding a nun or brother, therefore, the coder uses code 2513 only if a lay occupation is not reported.

Language

In order to reflect the bilingual nature of Canada's labour force, the 1971 Occupational Classification Manual is published in both an English and a bilingual form. In the latter, both English and French occupational titles are listed in one alphabetical arrangement to produce a bilingual index. An English volume has been produced for use in those

areas where French is unlikely to be reported. The French titles in the bilingual volume are those commonly used and are not translations of the English titles. As a fund of occupational titles reported in French is accumulated, future editions can include a completely French manual.

Alphabetical Arrangement in the Indexes of this Manual

Each word in a title is taken separately for purposes of alphabetical arrangement; this follows the practice used in the SIC. The following titles will be found in this order in the index:

car dealer	carder
car painter	caretaker
car washer	carpenter
card grinder	carton wrapper

Where the same occupational title is listed more than once, then the alphabetical order of the industry qualification prevails. For example:

car painter—auto repair shop
car painter—garage
car painter—motor vehicle mfg.

The same occupational title may be shown in three different spelling arrangements.

If such is the case, the following alphabetical order prevails:

pipe line foreman
pipe-line foreman
pipeline foreman

It is important, therefore, if a title is not found readily in the Alphabetical Index, to consider whether it may have been reported as a single word or as two or more separate words.

Multiple-Word Occupational Titles

Many occupational titles shown in the Index contain two or more words. If an attempt were made to cross-index all multiple-word titles, the Index would become so long as to be unwieldy. In the Alphabetical Index, therefore, the following practices are followed:

(a) Certain occupational titles, are commonly reported in a given order and are indexed only in that order. Examples are:

cabinet maker	lathe hand
calendar man	notary public
drill runner	paper boy
heat treater	track worker
kiln burner	trouble shooter

(b) **Cross-Indexing:** Occupational titles which are commonly reported both in natural order of the words and in some inverted order are shown both ways in the Alphabetical Index: for example, "Parking Attendant" and "Attendant, Parking", "Bottling Foreman" and "Foreman, Bottling". There are many cases in which multiple-word titles are cross-indexed. It is necessary to try all possible orders of words before deciding that the title is not in the Alphabetical Index.

(c) **Key Word:** An exception to (b) is an occupational title containing the key word "Operator". Such a title will be shown only in its inverted form in the Alphabetical Index: for example, "Operator, Bleach-Pulp and Paper Mill". Since no inverted titles are shown in the Classified Index, this title appears in that Index as "Bleach Operator".

Abbreviated Occupational Titles

Abbreviated occupational titles appear at the beginning of each alphabetical section as determined by the first letter. Examples are: "C.P.A." for Certified Public Accountant; "D.D.S." for Doctor of Dental Surgery; "P.B.X. Operator" for Private Branch Exchange Operator; "R.O.P. Inspector" for Record of Performance Inspector.

Words in Parentheses

Some occupational titles in the manual contain words in parentheses. For example, see the titles "Refrigeration Engineer (Mech. Engineer)" and "Refrigeration Engineer (Stationary Engineer)". The title "Refrigeration Engineer" describes different jobs depending upon whether the incumbent requires professional qualification. Because of the abundance of "engineers" in the labour force today, coders are instructed to pay special attention to cases in which this word is included in a title. The coder must refer to the individual's schooling in order to determine whether to apply one of the unit group codes under Minor Group 214, reserved for professional engineers or some other appropriate unit

group code (not professional) consistent with the nature of the work performed.

Occupations Not Stated

A special code 0000 has been created to cover those situations in which the occupation cannot be determined from the census questionnaire.

Concluding Remarks

The indexes to this Occupational Classification Manual have been printed from type set on the basis of magnetic tape files. Approximately 25,000 punched cards were assembled for the programme (including inverted titles) and considerable editing was involved to keep the number of cards to a minimum, therefore abbreviations have been used extensively.

It should be pointed out that while every effort has been made to ensure that occupations in this manual are classified to the same groups as they will be in Volume I of the CCDO, some inconsistencies are inevitable due to the unavoidable difference in publication deadlines. It should also be noted that the major, minor and unit group titles in the classified index in Volume II of the Census Manual are a condensed form of those shown in the list of group titles. This was necessary to accommodate the titles in the limited space available.

Close liaison has been maintained between the Dominion Bureau of Statistics and the Department of Manpower and Immigration during the development of the CCDO and of this manual classification. Nevertheless, the lists and definitions of all occupations in the CCDO had not been finalized when the Census Manual went to print and the complete CCDO being developed in the Department of Manpower and Immigration will not be published for some months. It is expected, however, that the detailed CCDO Volume I will be available for reference purposes during census coding and it will be extremely valuable when used in conjunction with the present Manual.

LIST OF MAJOR, MINOR AND UNIT GROUPS

MAJOR GROUP 11 - MANAGERIAL, ADMINISTRATIVE AND RELATED OCCUPATIONS

111 Officials and Administrators Unique to Government

- 1111 Members of Legislative Bodies
- 1113 Government Administrators
- 1115 Postmasters
- 1116 Inspectors and Regulatory Officers, Government
- 1119 Officials and Administrators Unique to Government, n.e.c.

113/114 Other Managers and Administrators

- 1130 General Managers and Other Senior Officials
- 1131 Management Occupations, Natural Sciences and Engineering
- 1132 Management Occupations, Social Sciences and Related Fields
- 1133 Administrators in Teaching and Related Fields
- 1134 Administrators in Medicine and Health
- 1135 Financial Management Occupations
- 1136 Personnel and Industrial Relations Management Occupations
- 1137 Sales and Advertising Management Occupations
- 1141 Purchasing Management Occupations
- 1142 Services Management Occupations
- 1143 Production Management Occupations
- 1145 Management Occupations, Construction Operations
- 1147 Management Occupations, Transport and Communications Operations
- 1149 Other Managers and Administrators, n.e.c.

117 Occupations Related to Management and Administration

- 1171 Accountants, Auditors and Other Financial Officers
- 1174 Personnel and Related Officers
- 1175 Purchasing Officers and Buyers, Except Wholesale and Retail Trade
- 1176 Inspectors and Regulatory Officers, Non-Government
- 1179 Occupations Related to Management and Administration, n.e.c.

MAJOR GROUP 21 - OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS

211 Occupations in Physical Sciences

- 2111 Chemists
- 2112 Geologists
- 2113 Physicists
- 2114 Meteorologists
- 2117 Physical Sciences Technologists and Technicians
- 2119 Occupations in Physical Sciences, n.e.c.

213 Occupations in Life Sciences

- 2131 Agriculturists and Related Scientists
- 2133 Biologists and Related Scientists
- 2135 Life Sciences Technologists and Technicians
- 2139 Occupations in Life Sciences, n.e.c.

MAJOR GROUP 21 - OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS - Concluded

214/215 Architects and Engineers

- 2141 Architects
- 2142 Chemical Engineers
- 2143 Civil Engineers
- 2144 Electrical Engineers
- 2145 Industrial Engineers
- 2147 Mechanical Engineers
- 2151 Metallurgical Engineers
- 2153 Mining Engineers
- 2154 Petroleum Engineers
- 2155 Aeronautical Engineers
- 2157 Nuclear Engineers
- 2159 Architects and Engineers, n.e.c.

216 Other Occupations in Architecture and Engineering

- 2160 Supervisors: Other Occupations in Architecture and Engineering
- 2161 Surveyors
- 2163 Draughtsmen
- 2165 Architectural and Engineering Technologists and Technicians
- 2169 Other Occupations in Architecture and Engineering, n.e.c.

218 Occupations in Mathematics, Statistics, Systems Analysis and Related Fields

- 2181 Mathematicians, Statisticians and Actuaries
- 2183 Systems Analysts, Computer Programmers and Related Occupations
- 2189 Occupations in Mathematics, Statistics, Systems Analysis and Related Fields, n.e.c.

MAJOR GROUP 23 - OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS

231 Occupations in Social Sciences

- 2311 Economists
- 2313 Sociologists, Anthropologists and Related Social Scientists
- 2315 Psychologists
- 2319 Occupations in Social Sciences, n.e.c.

233 Occupations in Social Work and Related Fields

- 2331 Social Workers
- 2333 Occupations in Welfare and Community Services
- 2339 Occupations in Social Work and Related Fields, n.e.c.

234 Occupations in Law and Jurisprudence

- 2341 Judges and Magistrates
- 2343 Lawyers and Notaries
- 2349 Occupations in Law and Jurisprudence, n.e.c.

235 Occupations in Library, Museum and Archival Sciences

- 2350 Supervisors: Occupations in Library, Museum and Archival Sciences
- 2351 Librarians and Archivists

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

MAJOR GROUP 23 - OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS - Concluded

235 Occupations in Library, Museum and Archival Sciences - Concluded

- 2353 Technicians in Library, Museum and Archival Sciences
- 2359 Occupations in Library, Museum and Archival Sciences, n.e.c.

239 Other Occupations in Social Sciences and Related Fields

- 2391 Educational and Vocational Counsellors
- 2399 Other Occupations in Social Sciences and Related Fields, n.e.c.

MAJOR GROUP 25 - OCCUPATIONS IN RELIGION

251 Occupations in Religion

- 2511 Ministers of Religion
- 2513 Nuns and Brothers (W), n.o.r.
- 2519 Occupations in Religion, n.e.c.

MAJOR GROUP 27 - TEACHING AND RELATED OCCUPATIONS

271 University Teaching and Related Occupations

- 2711 University Teachers
- 2719 University Teaching and Related Occupations, n.e.c.

273 Elementary and Secondary School Teaching and Related Occupations

- 2731 Elementary and Kindergarten Teachers
- 2733 Secondary School Teachers
- 2739 Elementary and Secondary School Teaching and Related Occupations, n.e.c.

279 Other Teaching and Related Occupations

- 2791 Community College and Vocational School Teachers
- 2792 Fine Arts School Teachers
- 2793 Post-secondary School Teachers, n.e.c.
- 2795 Teachers of Exceptional Students, n.e.c.
- 2797 Instructors and Training Officers, n.e.c.
- 2799 Other Teaching and Related Occupations, n.e.c.

MAJOR GROUP 31 - OCCUPATIONS IN MEDICINE AND HEALTH

311 Health Diagnosing and Treating Occupations

- 3111 Physicians and Surgeons
- 3113 Dentists
- 3115 Veterinarians
- 3117 Osteopaths and Chiropractors
- 3119 Health Diagnosing and Treating Occupations, n.e.c.

313 Nursing, Therapy and Related Assisting Occupations

- 3130 Supervisors: Nursing Occupations
- 3131 Nurses, Graduate, Except Supervisors
- 3133 Nurses-in-training
- 3134 Nursing Assistants
- 3135 Nursing Aides and Orderlies

MAJOR GROUP 31 - OCCUPATIONS IN MEDICINE AND HEALTH - Concluded

313 Nursing, Therapy and Related Assisting Occupations - Concluded

- 3137 Physiotherapists, Occupational and Other Therapists
- 3139 Nursing, Therapy and Related Assisting Occupations, n.e.c.

315 Other Occupations in Medicine and Health

- 3151 Pharmacists
- 3152 Dietitians and Nutritionists
- 3153 Optometrists
- 3154 Dispensing Opticians
- 3155 Radiological Technologists and Technicians
- 3156 Medical Laboratory Technologists and Technicians
- 3157 Dental Hygienists, Assistants and Technicians
- 3159 Other Occupations in Medicine and Health, n.e.c.

MAJOR GROUP 33 - ARTISTIC, LITERARY, RECREATIONAL AND RELATED OCCUPATIONS

331 Occupations in Fine and Commercial Art, Photography and Related Fields

- 3311 Painters, Sculptors and Related Artists
- 3313 Product and Interior Designers
- 3314 Advertising and Illustrating Artists
- 3315 Photographers and Cameramen
- 3319 Occupations in Fine and Commercial Art, Photography and Related Fields, n.e.c.

333 Occupations in Performing and Audio-visual Arts

- 3330 Producers and Directors, Performing and Audio-visual Arts
- 3332 Musicians
- 3333 Dancers and Choreographers
- 3335 Actors
- 3337 Radio and Television Announcers
- 3339 Occupations in Performing and Audio-visual Arts, n.e.c.

335 Occupations in Writing

- 3352 Writers and Editors
- 3355 Translators and Interpreters
- 3359 Occupations in Writing, n.e.c.

337 Occupations in Sport and Recreation

- 3370 Coaches, Trainers, Instructors and Managers, Sport and Recreation
- 3371 Referees and Related Officials
- 3373 Athletes
- 3375 Attendants, Sport and Recreation
- 3379 Occupations in Sport and Recreation, n.e.c.

MAJOR GROUP 41 - CLERICAL AND RELATED OCCUPATIONS

411 Stenographic and Typing Occupations

- 4110 Supervisors: Stenographic and Typing Occupations
- 4111 Secretaries and Stenographers
- 4113 Typists and Clerk-typists

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

MAJOR GROUP 41 - CLERICAL AND RELATED OCCUPATIONS - Concluded

413 Bookkeeping, Account-recording and Related Occupations

- 4130 Supervisors: Bookkeeping, Account-recording and Related Occupations
- 4131 Bookkeepers and Accounting Clerks
- 4133 Tellers and Cashiers
- 4135 Insurance, Bank and Other Finance Clerks
- 4137 Statistical Clerks
- 4139 Bookkeeping, Account-recording and Related Occupations, n.e.c.

414 Office Machine and Electronic Data-processing Equipment Operators

- 4140 Supervisors: Office Machine and Electronic Data-processing Equipment Operators
- 4141 Office Machine Operators
- 4143 Electronic Data-processing Equipment Operators

415 Material Recording, Scheduling and Distributing Occupations

- 4150 Supervisors: Material Recording, Scheduling and Distributing Occupations
- 4151 Production Clerks
- 4153 Shipping and Receiving Clerks
- 4155 Stock Clerks and Related Occupations
- 4157 Weighers
- 4159 Material Recording, Scheduling and Distributing Occupations, n.e.c.

416 Library, File and Correspondence Clerks and Related Occupations

- 4160 Supervisors: Library, File and Correspondence Clerks and Related Occupations
- 4161 Library and File Clerks
- 4169 Library, File and Correspondence Clerks and Related Occupations, n.e.c.

417 Reception, Information, Mail and Message Distribution Occupations

- 4170 Supervisors: Reception, Information, Mail and Message Distribution Occupations
- 4171 Receptionists and Information Clerks
- 4172 Mail Carriers
- 4173 Mail and Postal Clerks
- 4175 Telephone Operators
- 4177 Messengers
- 4179 Reception, Information, Mail and Message Distribution Occupations, n.e.c.

419 Other Clerical and Related Occupations

- 4190 Supervisors: Other Clerical and Related Occupations, n.e.c.
- 4191 Collectors
- 4192 Adjusters, Claim
- 4193 Travel Clerks, Ticket, Station and Freight Agents
- 4194 Hotel Clerks
- 4195 Personnel Clerks
- 4197 General Office Clerks
- 4199 Other Clerical and Related Occupations, n.e.c.

MAJOR GROUP 51 - SALES OCCUPATIONS

513/514 Sales Occupations, Commodities

- 5130 Supervisors: Sales Occupations, Commodities
- 5131 Technical Salesmen and Related Advisers
- 5133 Commercial Travellers
- 5135 Salesmen and Salespersons, Commodities, n.e.c.
- 5137 Sales Clerks, Commodities
- 5141 Street Vendors and Door-to-door Salesmen
- 5143 Newsboys
- 5145 Service Station Attendants
- 5149 Sales Occupations: Commodities, n.e.c.

517 Sales Occupations, Services

- 5170 Supervisors: Sales Occupations, Services
- 5171 Insurance Salesmen and Agents
- 5172 Real Estate Salesmen
- 5173 Salesmen and Traders, Securities
- 5174 Advertising Salesmen
- 5177 Business Services Salesmen
- 5179 Sales Occupations: Services, n.e.c.

519 Other Sales Occupations

- 5190 Supervisors: Other Sales Occupations
- 5191 Buyers, Wholesale and Retail Trade
- 5193 Driver-salesmen
- 5199 Other Sales Occupations, n.e.c.

MAJOR GROUP 61 - SERVICE OCCUPATIONS

611 Protective Service Occupations

- 6111 Fire-fighting Occupations
- 6112 Policemen and Detectives, Government
- 6113 Policemen and Investigators, Private
- 6115 Guards and Watchmen
- 6116 Commissioned Officers, Armed Forces
- 6117 Other Ranks, Armed Forces
- 6119 Protective Service Occupations, n.e.c.

612 Food and Beverage Preparation and Related Service Occupations

- 6120 Supervisors: Food and Beverage Preparation and Related Service Occupations
- 6121 Chefs and Cooks
- 6123 Bartenders
- 6125 Waiters, Hostesses and Stewards, Food and Beverage
- 6129 Food and Beverage Preparation and Related Service Occupations, n.e.c.

613 Occupations in Lodging and Other Accommodation

- 6130 Supervisors: Occupations in Lodging and Other Accommodation
- 6131 Managers: Hotel, Motel and Other Accommodation
- 6133 Chambermaids and Housemen
- 6135 Sleeping-Car and Baggage Porters, and Bellmen
- 6139 Occupations in Lodging and Other Accommodation, n.e.c.

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

MAJOR GROUP 61 - SERVICE OCCUPATIONS - Concluded

614 Personal Service Occupations

- 6141 Funeral Directors, Embalmers and Related Occupations
- 6143 Barbers, Hairdressers and Related Occupations
- 6144 Guides
- 6145 Hostesses and Stewards, Except Food and Beverage
- 6147 Babysitters
- 6149 Personal Service Occupations, n.e.c.

616 Apparel and Furnishings Service Occupations

- 6160 Supervisors: Apparel and Furnishings Service Occupations
- 6162 Laundering and Dry Cleaning Occupations
- 6165 Pressing Occupations
- 6169 Apparel and Furnishings Service Occupation, n.e.c.

619 Other Service Occupations

- 6190 Supervisors: Other Service Occupations
- 6191 Janitors, Charworkers and Cleaners
- 6193 Elevator Operating Occupations
- 6198 Occupations in Labouring and Other Elemental Work, Services
- 6199 Other Service Occupations, n.e.c.

MAJOR GROUP 71 - FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS

711 Farmers

- 7112 Farmers

713 Farm Management Occupations

- 7131 Farm Management Occupations

718/719 Other Farming, Horticultural and Animal Husbandry Occupations

- 7180 Foremen: Other Farming, Horticultural and Animal Husbandry Occupations
- 7182 Farm Workers
- 7195 Nursery and Related Workers
- 7197 Farm Machinery Operators and Custom Operators
- 7199 Other Farming, Horticultural and Animal Husbandry Occupations, n.e.c.

MAJOR GROUP 73 - FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS

731 Fishing, Hunting, Trapping and Related Occupations

- 7311 Captains and Other Officers, Fishing Vessels
- 7313 Fishermen: Net, Trap and Line
- 7315 Hunting, Trapping and Related Occupations
- 7319 Fishing, Hunting, Trapping and Related Occupations, n.e.c.

MAJOR GROUP 75 - FORESTRY AND LOGGING OCCUPATIONS

751 Forestry and Logging Occupations

- 7510 Foremen: Forestry and Logging Occupations
- 7511 Forestry Conservation Occupations
- 7513 Timber Cutting and Related Occupations

MAJOR GROUP 75 - FORESTRY AND LOGGING OCCUPATIONS - Concluded

751 Forestry and Logging Occupations - Conc.

- 7516 Log Inspecting, Grading, Scaling and Related Occupations
- 7517 Log Hoisting, Sorting, Moving and Related Occupations
- 7518 Occupations in Labouring and Other Elemental Work, Forestry and Logging
- 7519 Forestry and Logging Occupations, n.e.c.

MAJOR GROUP 77 - MINING AND QUARRYING IN- CLUDING OIL AND GAS FIELD OCCUPATIONS

771 Mining and Quarrying Including Oil and Gas Field Occupations

- 7710 Foremen: Mining and Quarrying Including Oil and Gas Field Occupations
- 7711 Rotary Well-drilling and Related Occupations
- 7713 Other Rock and Soil Drilling Occupations
- 7715 Blasting Occupations
- 7717 Mining and Quarrying: Cutting, Handling and Loading Occupations
- 7718 Occupations in Labouring and Other Elemental Work, Mining and Quarrying Including Oil and Gas Fields
- 7719 Mining and Quarrying Including Oil and Gas Field Occupations, n.e.c.

MAJOR GROUP 81/82 - PROCESSING OCCUPATIONS

811 Mineral Ore Treating Occupations

- 8110 Foremen: Mineral Ore Treating Occupations
- 8111 Crushing and Grinding Occupations, Mineral Ores
- 8113 Mixing, Separating, Filtering and Related Occupations, Mineral Ores
- 8115 Melting and Roasting Occupations, Mineral Ores
- 8116 Inspecting, Testing, Grading and Sampling Occupations, Mineral Ore Treating
- 8118 Occupations in Labouring and Other Elemental Work, Mineral Ore Treating
- 8119 Mineral Ore Treating Occupations, n.e.c.

813/814 Metal Processing and Related Occupations

- 8130 Foremen: Metal Processing and Related Occupations
- 8131 Metal Smelting, Converting and Refining Furnacemen
- 8133 Metal Heat Treating Occupations
- 8135 Metal Rolling Occupations
- 8137 Moulding, Coremaking and Metal Casting Occupations
- 8141 Metal Extruding and Drawing Occupations
- 8143 Plating, Metal Spraying and Related Occupations
- 8146 Inspecting, Testing, Grading and Sampling Occupations, Metal Processing
- 8148 Occupations in Labouring and Other Elemental Work, Metal Processing
- 8149 Metal Processing and Related Occupations, n.e.c.

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

**MAJOR GROUP 81/82 - PROCESSING
OCCUPATIONS - Continued**

**815 Clay, Glass and Stone Processing, Forming
and Related Occupations**

- 8150 Foremen: Clay, Glass and Stone Processing, Forming and Related Occupations
- 8151 Furnacemen and Kilnmen: Clay, Glass and Stone
- 8153 Separating, Grinding, Crushing and Mixing Occupations: Clay, Glass and Stone
- 8155 Forming Occupations: Clay, Glass and Stone
- 8156 Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Processing and Forming
- 8158 Occupations in Labouring and Other Elemental Work: Clay, Glass and Stone Processing and Forming
- 8159 Clay, Glass and Stone Processing, Forming and Related Occupations, n.e.c.

**816/817 Chemicals, Petroleum, Rubber, Plastic and
Related Materials Processing Occupations**

- 8160 Foremen: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations
- 8161 Mixing and Blending Occupations, Chemicals and Related Materials
- 8163 Filtering, Straining and Separating Occupations, Chemicals and Related Materials
- 8165 Distilling, Subliming and Carbonizing Occupations, Chemicals and Related Materials
- 8167 Roasting, Cooking and Drying Occupations, Chemicals and Related Materials
- 8171 Crushing and Grinding Occupations, Chemicals and Related Materials
- 8173 Coating and Calendering Occupations, Chemicals and Related Materials
- 8176 Inspecting, Testing, Grading and Sampling Occupations: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing
- 8178 Occupations in Labouring and Other Elemental Work: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing
- 8179 Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations, n.e.c.

**821/822 Food, Beverage and Related Processing
Occupations**

- 8210 Foremen: Food, Beverage and Related Processing Occupations
- 8211 Flour and Grain Milling Occupations
- 8213 Baking, Confectionery Making and Related Occupations
- 8215 Slaughtering and Meat Cutting, Canning, Curing and Packing Occupations
- 8217 Fish Canning, Curing and Packing Occupations
- 8221 Fruit and Vegetable Canning, Preserving and Packing Occupations
- 8223 Milk Processing Occupations
- 8225 Sugar Processing and Related Occupations
- 8226 Inspecting, Testing, Grading and Sampling Occupations: Food, Beverage and Related Processing
- 8227 Beverage Processing Occupations
- 8228 Occupations in Labouring and Other Elemental Work: Food, Beverage and Related Processing
- 8229 Food, Beverage and Related Processing Occupations, n.e.c.

**MAJOR GROUP 81/82 - PROCESSING
OCCUPATIONS - Concluded**

**823 Wood Processing Occupations, Except Pulp
and Papermaking**

- 8230 Foremen: Wood Processing Occupations, Except Pulp and Papermaking
- 8231 Sawmill Sawyers and Related Occupations
- 8233 Plywood Making and Related Occupations
- 8235 Wood Treating Occupations
- 8236 Inspecting, Testing, Grading and Sampling Occupations: Wood Processing, Except Pulp and Papermaking
- 8238 Occupations in Labouring and Other Elemental Work: Wood Processing, Except Pulp and Papermaking
- 8239 Wood Processing Occupations, Except Pulp and Papermaking, n.e.c.

825 Pulp and Papermaking and Related Occupations

- 8250 Foremen: Pulp and Papermaking and Related Occupations
- 8251 Cellulose Pulp Preparing Occupations
- 8253 Papermaking and Finishing Occupations
- 8256 Inspecting, Testing, Grading and Sampling Occupations, Pulp and Papermaking
- 8258 Occupations in Labouring and Other Elemental Work, Pulp and Papermaking
- 8259 Pulp and Papermaking and Related Occupations, n.e.c.

826/827 Textile Processing Occupations

- 8260 Foremen: Textile Processing Occupations
- 8261 Textile Fibre Preparing Occupations
- 8263 Textile Spinning and Twisting Occupations
- 8265 Textile Winding and Reeling Occupations
- 8267 Textile Weaving Occupations
- 8271 Knitting Occupations
- 8273 Textile Bleaching and Dyeing Occupations
- 8275 Textile Finishing and Calendering Occupations
- 8276 Inspecting, Testing, Grading and Sampling Occupations, Textile Processing
- 8278 Occupations in Labouring and Other Elemental Work, Textile Processing
- 8279 Textile Processing Occupations, n.e.c.

829 Other Processing Occupations

- 8290 Foremen: Other Processing Occupations
- 8293 Tobacco Processing Occupations
- 8295 Hide and Pelt Processing Occupations
- 8296 Inspecting, Testing, Grading and Sampling Occupations, Processing, n.e.c.
- 8298 Occupations in Labouring and Other Elemental Work, Other Processing
- 8299 Other Processing Occupations, n.e.c.

**MAJOR GROUP 83 - MACHINING AND RELATED
OCCUPATIONS**

831 Metal Machining Occupations

- 8310 Foremen: Metal Machining Occupations
- 8311 Tool and Die Making Occupations

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

MAJOR GROUP 83 - MACHINING AND RELATED OCCUPATIONS - Concluded

831 Metal Machining Occupations - Concluded

- 8313 Machinist and Machine Tool Setting-Up Occupations
- 8315 Machine Tool Operating Occupations
- 8316 Inspecting, Testing, Grading and Sampling Occupations, Metal Machining
- 8319 Metal Machining Occupations, n.e.c.

833 Metal Shaping and Forming Occupations, Except Machining

- 8330 Foremen: Metal Shaping and Forming Occupations, Except Machining
- 8331 Forging Occupations
- 8333 Sheet Metal Workers
- 8334 Metalworking-machine Operators, n.e.c.
- 8335 Welding and Flame Cutting Occupations
- 8336 Inspecting, Testing, Grading and Sampling Occupations: Metal Shaping and Forming, Except Machining
- 8337 Boilermakers, Platers and Structural Metal Workers
- 8339 Metal Shaping and Forming Occupations, Except Machining, n.e.c.

835 Wood Machining Occupations

- 8350 Foremen: Wood Machining Occupations
- 8351 Wood Patternmaking Occupations
- 8353 Wood Sawing and Related Occupations, Except Sawmill
- 8355 Planing, Turning, Shaping and Related Wood Machining Occupations
- 8356 Inspecting, Testing, Grading and Sampling Occupations, Wood Machining
- 8357 Wood Sanding Occupations
- 8359 Wood Machining Occupations, n.e.c.

837 Clay, Glass and Stone and Related Materials Machining Occupations

- 8370 Foremen: Clay, Glass and Stone and Related Materials Machining Occupations
- 8371 Cutting and Shaping Occupations: Clay, Glass and Stone
- 8373 Abrading and Polishing Occupations: Clay, Glass and Stone, n.e.c.
- 8376 Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Machining
- 8379 Clay, Glass and Stone and Related Materials Machining Occupations, n.e.c.

839 Other Machining and Related Occupations

- 8390 Foremen: Other Machining and Related Occupations, n.e.c.
- 8391 Engravers, Etchers and Related Occupations
- 8393 Filing, Grinding, Buffing, Cleaning and Polishing Occupations, n.e.c.
- 8395 Patternmakers and Mouldmakers, n.e.c.
- 8396 Inspecting, Testing, Grading and Sampling Occupations, Machining, n.e.c.
- 8399 Other Machining and Related Occupations, n.e.c.

MAJOR GROUP 85 - PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

851/852 Fabricating and Assembling Occupations, Metal Products, n.e.c.

- 8510 Foremen: Fabricating and Assembling Occupations, Metal Products, n.e.c.
- 8511 Engine and Related Equipment Fabricating and Assembling Occupations, n.e.c.
- 8513 Motor Vehicle Fabricating and Assembling Occupations, n.e.c.
- 8515 Aircraft Fabricating and Assembling Occupations, n.e.c.
- 8523 Industrial, Farm, Construction and Other Mechanized Equipment and Machinery Fabricating and Assembling Occupations, n.e.c.
- 8525 Business and Commercial Machines Fabricating and Assembling Occupations, n.e.c.
- 8526 Inspecting, Testing, Grading and Sampling Occupations, Fabricating and Assembling Metal Products, n.e.c.
- 8527 Precision Instruments and Related Equipment Fabricating and Assembling Occupations, n.e.c.
- 8528 Occupations in Labouring and Other Elemental Work, Fabricating and Assembling Metal Products, n.e.c.
- 8529 Other Fabricating and Assembling Occupations, Metal Products, n.e.c.

853 Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment

- 8530 Foremen: Fabricating, Assembling, Installing and Repairing Occupations, Electrical, Electronic and Related Equipment
- 8531 Electrical Equipment Fabricating and Assembling Occupations
- 8533 Electrical and Related Equipment Installing and Repairing Occupations, n.e.c.
- 8534 Electronic Equipment Fabricating and Assembling Occupations
- 8535 Electronic and Related Equipment Installing and Repairing Occupations, n.e.c.
- 8536 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment
- 8537 Radio and Television Service Repairmen
- 8538 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment
- 8539 Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment, n.e.c.

854 Fabricating, Assembling and Repairing Occupations, Wood Products

- 8540 Foremen: Fabricating, Assembling and Repairing Occupations, Wood Products
- 8541 Cabinet and Wood Furniture Makers
- 8546 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing, Wood Products

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

**MAJOR GROUP 85 - PRODUCT FABRICATING,
ASSEMBLING AND REPAIRING OCCUPATIONS -
Continued**

**854 Fabricating, Assembling and Repairing Occu-
pations, Wood Products - Concluded**

- 8548 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing, Wood Products
- 8549 Fabricating, Assembling and Repairing Occupations, Wood Products, n.e.c.

855/856 Fabricating, Assembling and Repairing Occupations: Textiles, Fur and Leather Products

- 8550 Foremen: Fabricating, Assembling and Repairing Occupations, Textile, Fur and Leather Products
- 8551 Patternmaking, Marking and Cutting Occupations: Textile, Fur and Leather Products
- 8553 Tailors and Dressmakers
- 8555 Furriers
- 8557 Milliners, Hat and Cap Makers
- 8561 Shoemaking and Repairing Occupations
- 8562 Upholsterers
- 8563 Sewing Machine Operators, Textile and Similar Materials
- 8566 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing, Textile, Fur and Leather Products
- 8568 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing, Textile, Fur and Leather Products
- 8569 Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products, n.e.c.

**857 Fabricating, Assembling and Repairing Occu-
pations: Rubber, Plastic and Related Products**

- 8570 Foremen: Fabricating, Assembling and Repairing Occupations, Rubber, Plastic and Related Products
- 8571 Bonding and Cementing Occupations, Rubber, Plastic and Related Products
- 8573 Moulding Occupations, Rubber, Plastic and Related Products
- 8575 Cutting and Finishing Occupations, Rubber, Plastic and Related Products
- 8576 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing, Rubber, Plastic and Related Products
- 8578 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing, Rubber, Plastic and Related Products
- 8579 Fabricating, Assembling and Repairing Occupations: Rubber, Plastic and Related Products, n.e.c.

858 Mechanics and Repairmen Except Electrical

- 8580 Foremen: Mechanics and Repairmen Except Electrical
- 8581 Motor Vehicle Mechanics and Repairmen
- 8582 Aircraft Mechanics and Repairmen
- 8583 Rail Transport Equipment Mechanics and Repairmen

**MAJOR GROUP 85 - PRODUCT FABRICATING,
ASSEMBLING AND REPAIRING OCCUPATIONS -
Concluded**

**858 Mechanics and Repairmen Except Electrical -
Concluded**

- 8584 Industrial, Farm and Construction Machinery Mechanics and Repairmen
- 8585 Business and Commercial Machine Mechanics and Repairmen
- 8586 Inspecting, Testing, Grading and Sampling Occupations, Equipment Repair Except Electrical
- 8587 Watch and Clock Repairmen
- 8588 Precision Instrument Mechanics and Repairmen
- 8589 Mechanics and Repairmen Except Electrical, n.e.c.

**859 Other Product Fabricating, Assembling and
Repairing Occupations**

- 8590 Foremen: Product Fabricating, Assembling and Repairing Occupations, n.e.c.
- 8591 Jewellery and Silverware Fabricating, Assembling and Repairing Occupations
- 8592 Marine Craft Fabricating, Assembling and Repairing Occupations
- 8593 Paper Product Fabricating and Assembling Occupations
- 8595 Painting and Decorating Occupations, Except Construction
- 8596 Inspecting, Testing, Grading and Sampling Occupations: Product Fabricating, Assembling and Repairing, n.e.c.
- 8598 Occupations in Labouring and Other Elemental Work: Product Fabricating, Assembling and Repairing, n.e.c.
- 8599 Other Product Fabricating, Assembling and Repairing Occupations, n.e.c.

**MAJOR GROUP 87 - CONSTRUCTION TRADES
OCCUPATIONS**

**871 Excavating, Grading, Paving and Related Occu-
pations**

- 8710 Foremen: Excavating, Grading, Paving and Related Occupations
- 8711 Excavating, Grading and Related Occupations
- 8713 Paving, Surfacing and Related Occupations
- 8715 Railway Sectionmen and Trackmen
- 8718 Occupations in Labouring and Other Elemental Work: Excavating, Grading, and Paving
- 8719 Excavating, Grading, Paving and Related Occupations, n.e.c.

**873 Electrical Power, Lighting and Wire Commu-
nications Equipment Erecting, Installing and
Repairing Occupations**

- 8730 Foremen: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations
- 8731 Electrical Power Linemen and Related Occupations
- 8733 Construction Electricians and Repairmen
- 8735 Wire Communications and Related Equipment Installing and Repairing Occupations

LIST OF MAJOR, MINOR AND UNIT GROUPS - Continued

MAJOR GROUP 87 - CONSTRUCTION TRADES OCCUPATIONS - Concluded

873 Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations - Concluded

- 8736 Inspecting, Testing, Grading and Sampling Occupations: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing
- 8738 Occupations in Labouring and Other Elemental Work: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing
- 8739 Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations, n.e.c.

878/879 Other Construction Trades Occupations

- 8780 Foremen: Other Construction Trades Occupations
- 8781 Carpenters and Related Occupations
- 8782 Brick and Stone Masons and Tile Setters
- 8783 Concrete Finishing and Related Occupations
- 8784 Plasterers and Related Occupations
- 8785 Painters, Paperhangers and Related Occupations
- 8786 Insulating Occupations, Construction
- 8787 Roofing, Waterproofing and Related Occupations
- 8791 Pipefitting, Plumbing and Related Occupations
- 8793 Structural Metal Erectors
- 8795 Glaziers
- 8796 Inspecting, Testing, Grading and Sampling Occupations, Construction, Except Electrical
- 8798 Occupations in Labouring and Other Elemental Work, Other Construction Trades
- 8799 Other Construction Trades Occupations, n.e.c.

MAJOR GROUP 91 - TRANSPORT EQUIPMENT OPERATING OCCUPATIONS

911 Air Transport Operating Occupations

- 9110 Foremen: Air Transport Operating Occupations
- 9111 Air Pilots, Navigators and Flight Engineers
- 9113 Air Transport Operating Support Occupations
- 9119 Air Transport Operating Occupations, n.e.c.

913 Railway Transport Operating Occupations

- 9130 Foremen: Railway Transport Operating Occupations
- 9131 Locomotive Engineers and Firemen
- 9133 Conductors and Brakemen, Railway
- 9135 Railway Transport Operating Support Occupations
- 9139 Railway Transport Operating Occupations, n.e.c.

915 Water Transport Operating Occupations

- 9151 Deck Officers
- 9153 Engineering Officers, Ship
- 9155 Deck Crew, Ship
- 9157 Engine and Boiler-Room Crew, Ship
- 9159 Water Transport Operating Occupations, n.e.c.

MAJOR GROUP 91 - TRANSPORT EQUIPMENT OPERATING OCCUPATIONS - Concluded

917 Motor Transport Operating Occupations

- 9170 Foremen: Motor Transport Operating Occupations
- 9171 Bus Drivers
- 9173 Taxi Drivers and Chauffeurs
- 9175 Truck Drivers
- 9179 Motor Transport Operating Occupations, n.e.c.

919 Other Transport and Related Equipment Operating Occupations

- 9190 Foremen: Other Transport and Related Equipment Operating Occupations
- 9191 Subway and Street Railway Operating Occupations
- 9193 Motormen and Dinkeymen, Except Rail Transport
- 9199 Other Transport and Related Equipment Operating Occupations, n.e.c.

MAJOR GROUP 93 - MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C.

931 Materials Handling and Related Occupations, n.e.c.

- 9310 Foremen: Materials Handling and Related Occupations, n.e.c.
- 9311 Hoisting Occupations, n.e.c.
- 9313 Longshoremen, Stevedores and Freight Handlers
- 9315 Materials Handling Equipment Operators, n.e.c.
- 9317 Packaging Occupations, n.e.c.
- 9318 Occupations in Labouring and Other Elemental Work, Materials Handling
- 9319 Materials Handling and Related Occupations, n.e.c.

MAJOR GROUP 95 - OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS

951 Printing and Related Occupations

- 9510 Foremen: Printing and Related Occupations
- 9511 Typesetters and Compositors
- 9512 Printing Press Occupations
- 9513 Stereotypers and Electrotypers
- 9514 Printing Engravers, Except Photoengravers
- 9515 Photoengravers and Related Occupations
- 9517 Bookbinders and Related Occupations
- 9518 Occupations in Labouring and Other Elemental Work, Printing and Related, n.e.c.
- 9519 Printing and Related Occupations, n.e.c.

953 Stationary Engine and Utilities Equipment Operating and Related Occupations

- 9530 Foremen: Stationary Engine and Utilities Equipment Operating and Related Occupations
- 9531 Power Station Operators
- 9539 Stationary Engine and Utilities Equipment Operating and Related Occupations, n.e.c.

LIST OF MAJOR, MINOR AND UNIT GROUPS - Concluded

MAJOR GROUP 95 - OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS - Continued

955 Electronic and Related Communications Equipment Operating Occupations, N.E.C.

- 9550 Foremen: Electronic and Related Communications Equipment Operating Occupations, n.e.c.
- 9551 Radio and Television Broadcasting Equipment Operators
- 9553 Telegraph Operators
- 9555 Sound Recording and Reproduction Equipment Operators
- 9557 Motion Picture Projectionists
- 9559 Electronic and Related Communications Equipment Operating Occupations, n.e.c.

959 Other Crafts and Equipment Operating Occupations, N.E.C.

- 9590 Foremen: Other Crafts and Equipment Operating Occupations, n.e.c.
- 9591 Photographic Processing Occupations
- 9599 Other Crafts and Equipment Operating Occupations, n.e.c.

MAJOR GROUP 99 - OCCUPATIONS NOT ELSEWHERE CLASSIFIED

991 Occupations Not Elsewhere Classified

- 9910 Supervisors and Foremen, n.e.c.
- 9916 Inspecting, Testing, Grading and Sampling Occupations, n.e.c.
- 9918 Occupations in Labouring and Other Elemental Work, n.e.c.
- 9919 Other Occupations, n.e.c.

MAJOR GROUP 00 - OCCUPATIONS NOT STATED

000 Occupations Not Stated

- 0000 Occupation Not Stated.

MAJOR, MINOR AND UNIT GROUP DEFINITIONS

MAJOR GROUP 11

MANAGERIAL, ADMINISTRATIVE AND RELATED OCCUPATIONS

This major group includes occupations concerned with managerial and administrative activities such as: planning, organizing, coordinating, directing, controlling, staffing; and formulating, implementing or enforcing policy in government, industry and other organizations. Also included are the following: middle management occupations; managers of chains of establishments; and occupations closely related to management and administration.

Excluded from this major group are the following: working proprietors and managing supervisors of wholesale and retail businesses, who are in Major Group 51—SALES OCCUPATIONS; working proprietors and managing supervisors of catering and lodging establishments, who are in Major Group 61—SERVICE OCCUPATIONS; police chiefs, fire chiefs, and other supervisory ranks in the protective services, who are classified with the men they supervise in Minor Group 611—PROTECTIVE SERVICE OCCUPATIONS; farm managers and farmers who are in Major Group 71—FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS; supervisors and foremen who are in other appropriate major, minor and unit groups. MANAGERIAL, ADMINISTRATIVE AND RELATED OCCUPATIONS are classified in the following minor groups:

- 111 Officials and Administrators Unique to Government
- 113/114 Other Managers and Administrators
- 117 Occupations Related to Management and Administration

111—OFFICIALS AND ADMINISTRATORS UNIQUE TO GOVERNMENT

This minor group includes occupations concerned with carrying out managerial and administrative activities listed in the major group definition, which are unique to government. Workers in these occupations may be elected or appointed and work in federal, provincial and local legislatures, departments or agencies. Activities include formulating, implementing or enforcing laws, rules and regulations related to their particular area of government. Managerial and administrative occupations which are common to both government and other organizations, including autonomous crown corporations, are in Minor Group 113/114—OTHER MANAGERS AND ADMINISTRATORS, or in Minor Group 117—OCCUPATIONS RELATED TO MANAGEMENT AND ADMINISTRATION. OFFICIALS AND ADMINISTRATORS UNIQUE TO GOVERNMENT are classified in the following unit groups:

- 1111 Members of Legislative Bodies
- 1113 Government Administrators
- 1115 Postmasters
- 1116 Inspectors and Regulatory Officers, Government
- 1119 Officials and Administrators Unique to Government, n.e.c.

1111—Members of Legislative Bodies

This unit group includes occupations concerned with developing laws, rules and regulations for society. Activities include presiding over, or participating in, legislative bodies of federal, provincial or local governments, working within the constitutional framework which specifies their authority and areas of jurisdiction.

1113—Government Administrators

This unit group includes occupations, unique to government, concerned with carrying out senior and middle managerial and administrative activities, as described under the master titles GENERAL MANAGER and MANAGER, with responsibility for implementing government policy in such areas as health, education, finance or labour legislation and administration of justice. Judges and magistrates are in Unit Group 2341—JUDGES AND MAGISTRATES.

1115 - Postmasters

This unit group includes occupations concerned with carrying out managerial and administrative activities in post-offices. Postmasters who operate a post-office in conjunction with another business are in this unit group only if the post-office operation is their principal activity.

1116 - Inspectors and Regulatory Officers, Government

This unit group includes occupations concerned with enforcing and advising on health, safety and other regulations such as those pertaining to people, animals, plantlife, products and establishments, in the capacity of local, provincial, federal inspectors

or regulatory officers. Excluded are both government and non-government testers, graders and samplers in the fields of processing materials, machining, fabricating and assembling goods or products, who are classified in their appropriate major, minor, and unit groups.

1119 - Officials and Administrators Unique to Government, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with carrying out managerial and administrative activities unique to government in areas such as public housing administration, labour arbitration, protective services and civil defence. Fire marshalls and police commissioners are in this unit group.

113/114 - OTHER MANAGERS AND ADMINISTRATORS

This minor group includes occupations concerned with carrying out managerial and administrative activities listed in the major group definition, in either governmental or non-governmental organizations. Occupational activities cover the fields of science, engineering, teaching, medicine, finance, industrial relations, sales and advertising, purchasing, services, production, construction, transport and other areas of the economy. These occupations are classified in the following unit groups:

- 1130 General Managers and Other Senior Officials
- 1131 Management Occupations, Natural Sciences and Engineering
- 1132 Management Occupations, Social Sciences and Related Fields
- 1133 Administrators in Teaching and Related Fields
- 1134 Administrators in Medicine and Health
- 1135 Financial Management Occupations
- 1136 Personnel and Industrial Relations Management Occupations
- 1137 Sales and Advertising Management Occupations
- 1141 Purchasing Management Occupations
- 1142 Services Management Occupations
- 1143 Production Management Occupations
- 1145 Management Occupations, Construction Operations
- 1147 Management Occupations, Transport and Communications Operations
- 1149 Other Managers and Administrators, n.e.c.

1130 - General Managers and Other Senior Officials

This unit group includes occupations in the senior levels of managerial and administrative work, as described under the master title GENERAL MANAGER, concerned with planning, organizing, directing and controlling on owners' or own behalf, an industrial, commercial, or other enterprise, establishment or organization. Includes senior officials of components of enterprises, establishments and organizations, provided that they perform duties as described under the master title, GENERAL

MANAGER. Officials senior to the GENERAL MANAGER are also included. Middle management occupations are classified in the appropriate unit groups of Minor Group 113/114 - OTHER MANAGERS AND ADMINISTRATORS.

1131 - Management Occupations, Natural Sciences and Engineering

This unit group includes occupations concerned with carrying out managerial and administrative

activities, as described under the master title MANAGER, in such fields as physical sciences, life sciences, architecture and engineering, mathematics, statistics and systems analysis. Occupations in this unit group are engaged in managerial and administrative activities related to Major Group 21—OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS.

1132—Management Occupations, Social Sciences and Related Fields

This unit group includes occupations concerned with carrying out managerial and administrative activities as, described under the master title MANAGER, in such fields as economics, sociology, psychology, social and welfare work; law and jurisprudence; library, museum and archival sciences; and educational and vocational counselling. Occupations in this unit group are engaged in managerial and administrative activities related to Major Group 23—OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS.

1133—Administrators in Teaching and Related Fields

This unit group includes occupations concerned with carrying out managerial and administrative activities, as described under the master title MANAGER, in universities; elementary and secondary schools; technological, trades, vocational and fine arts schools; and training and instructional organizations in government, industry, private business and other agencies. Occupations in this unit group are engaged in managerial and administrative activities related to Major Group 27—TEACHING AND RELATED OCCUPATIONS.

1134—Administrators in Medicine and Health

This unit group includes occupations concerned with carrying out managerial and administrative activities, as described under the master title MANAGER, in health diagnosing and treating; nursing and therapy; pharmacy; medical research; preventive medicine; and other areas in medicine and health fields. Occupations in this unit group are engaged in managerial and administrative activities related to Major Group 31—OCCUPATIONS IN MEDICINE AND HEALTH.

1135—Financial Management Occupations

This unit group includes occupations concerned with carrying out managerial and administrative activities, as described under the master title MANAGER, in banks, credit agencies, investment and insurance companies, or similar financial institutions; and in departments within industrial, commercial, government or other organizations concerned with financial management. Activities include: determining or advising other officials of the financial implications of policies; determining and advising on credit and investment policies; and negotiating with financial or other institutions on matters affecting the general policy of the organization.

1136—Personnel and Industrial Relations Management Occupations

This unit group includes occupations concerned with carrying out managerial and administrative activities, as described under the master title MANAGER, in the areas of employee and industrial relations. Activities include: participating in establishing employee relations policies of an organization; directing the selection, training and evaluation of employees; developing wage and salary schedules; representing the organization in collective bargaining or other negotiations; and directing benefit, safety and recreation programmes. Public relations men are in Unit Group 1179—OCCUPATIONS RELATED TO MANAGEMENT AND ADMINISTRATION, N.E.C.

1137—Sales and Advertising Management Occupations

This unit group includes occupations in managerial and administrative work, as described under the master title MANAGER, concerned with sales and advertising for chains of retail, wholesale and advertising establishments where promoting the sale of commodities and services is of primary importance. Managers in independent agencies who carry out sales and advertising activities for retail, wholesale and advertising establishments are in this unit group. Sales and advertising managers of chains of department stores are also in this unit group. Working proprietors of stores, managing supervisors of individual chain stores and of departments in stores are in Major Group 51—SALES OCCUPATIONS.

1141—Purchasing Management Occupations

This unit group includes occupations in managerial and administrative work, as described under the master title MANAGER, concerned with purchasing of materials, products or services in government, industry, business and other agencies. Purchasing officers and purchasing agents who do not buy for resale are in Unit Group 1175—PURCHASING OFFICERS. Buyers are in Unit Group 5191—BUYERS, WHOLESALE AND RETAIL TRADE.

1142—Services Management Occupations

This unit group includes occupations in managerial and administrative work, as described under the master title MANAGER, in organizations which provide food and beverage, apparel and furnishing, building and cleaning, and other services. Working proprietors and salaried managing supervisors of organizations which provide these services are in Major Group 61—SERVICE OCCUPATIONS. Activities include: managing and promoting the activities of service clubs; community service organizations; labour, business, political and volunteer or professional associations; and civil and industrial development organizations.

1143—Production Management Occupations

This unit group includes occupations in managerial and administrative work, as described

under the master title **MANAGER**, concerned with directing and coordinating production departments, divisions or other organizational units through subordinate supervisors, in an industrial, commercial, government or other organization.

1145 - Management Occupations, Construction Operations

This unit group includes occupations in managerial and administrative work, as described under the master title **MANAGER**, in organizations which are engaged in construction, major alteration, or repair of dwellings, business places, factories and all types of structures for public use such as highways, railways, dams, bridges, airports and docks. Activities include: preparing specifications and estimates of costs; placing orders for materials; hiring or contracting for the employment of men and machines; overseeing projects to ensure that specifications are met, time schedules maintained, and safety regulations observed; reporting and consulting on previous construction activities.

1147 - Management Occupations, Transport and Communications Operations

This unit group includes occupations in managerial and administrative work, as described under the master title **MANAGER**, concerned with the transportation of people or goods or the transmission of communications. Transport includes air, highway, water, railway, pipeline or other means of transportation. Communications include telephone, telegraph, microwave, telecommunications, radio and television broadcasting or other means of communication.

1149 - Other Managers and Administrators, n.e.c.

This unit group includes occupations in managerial and administrative work, not elsewhere classified, as described under the master title **MANAGER**, concerned with carrying out activities in either governmental or non-governmental organizations. Includes activities such as managing publishing organizations and commercial art enterprises. Executive secretaries are in this unit group.

117 - OCCUPATIONS RELATED TO MANAGEMENT AND ADMINISTRATION

This minor group includes occupations concerned with activities directly related to management and administration such as examining, analysing and interpreting accounting and other financial records and policies; providing consultant services; conducting programmes of employee recruitment, selection, training, promotion, welfare, safety, compensation and recreation; purchasing goods and materials for internal organizational use; and enforcing and advising on standards of performance and adherence to regulations. These occupations are classified in the following unit groups:

- 1171 Accountants, Auditors and Other Financial Officers**
- 1174 Personnel and Related Officers**
- 1175 Purchasing Officers and Buyers, Except Wholesale and Retail Trade**
- 1176 Inspectors and Regulatory Officers, Non-government**
- 1179 Occupations Related to Management and Administration, n.e.c.**

1171 - Accountants, Auditors and Other Financial Officers

This unit group includes occupations concerned with controlling and supervising accounting and auditing services, examining and vouching for the accuracy and completeness of bookkeeping records and financial statements, and advising on accounting and auditing systems as they affect the administration of any organization. Includes occupations concerned with other financial matters such as mortgage approvals, credit analyses, and foreign exchange trading.

1174 - Personnel and Related Officers

This unit group includes occupations concerned with formulating policies relating to the personnel administration of an organization and conducting programmes of recruitment, selection,

placement, training, promotion, welfare, safety, compensation, recreation and separation of employees. Occupations related to personnel research and the administration of testing and counselling programmes which require a background in psychology, are in Unit Group 2315 - **PSYCHOLOGISTS**.

1175 - Purchasing Officers and Buyers, Except Wholesale and Retail Trade

This unit group includes occupations concerned with buying goods or materials for internal use or for further processing in governmental, industrial, business and other institutions where the items purchased are not for resale. Activities include: establishing requirements of the organization; developing and interpreting specifications for goods or materials; studying technical publications, documents and advertising material; interviewing suppliers

or inviting tenders; conducting special buying missions and negotiations for prices; establishing delivery schedules and performing other functions directly related to purchasing. Purchasing management occupations are in Unit Group 1141 - PURCHASING MANAGEMENT OCCUPATIONS. Buyers who buy for resale are in Unit Group 5191 - BUYERS, WHOLESALE AND RETAIL TRADE

1176 - Inspectors and Regulatory Officers, Non-government

This unit group includes occupations concerned with enforcing and advising on standards and adherence to regulations in organizations or agencies other than municipal, provincial and federal governments in fields such as safety, quality of service in public transportation, and observance of company business policies and

procedures in units of chain organizations. Excluded are both government and non-government testers, graders and samplers in the fields of processing materials, machining, fabricating and assembling goods or products. These are classified in their appropriate major, minor and unit groups.

1179 - Occupations Related to Management and Administration, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with carrying out activities directly related to management and administration. Includes occupations such as business agents, public relations men, sales promotion men and management consultants. Publicity writers are in Unit Group 3359 - OCCUPATIONS IN WRITING, N.E.C.

MAJOR GROUP 21

OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS

This major group includes occupations concerned with research pertaining to the physical universe and all living organisms and the practical application of established physical, biological, engineering and mathematical laws and principles to specific problems and situations. Managerial occupations in the fields of natural science, engineering and mathematics are in Unit Group 1131—MANAGEMENT OCCUPATIONS, NATURAL SCIENCES AND ENGINEERING. Social science occupations are in Major Group 23—OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS. OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS are classified in the following minor groups:

- 211 Occupations in Physical Sciences**
- 213 Occupations in Life Sciences**
- 214/215 Architects and Engineers**
- 216 Other Occupations in Architecture and Engineering**
- 218 Occupations in Mathematics, Statistics, Systems Analysis and Related Fields**

211—OCCUPATIONS IN PHYSICAL SCIENCES

This minor group includes occupations concerned with research in the physical sciences to discover and establish scientific principles and laws and apply them to specific scientific problems and situations in such fields as chemistry, physics, geology, meteorology and metallurgy. These occupations are classified in the following unit groups:

- 2111 Chemists**
- 2112 Geologists**
- 2113 Physicists**
- 2114 Meteorologists**
- 2117 Physical Sciences Technologists and Technicians**
- 2119 Occupations in Physical Sciences, n.e.c.**

2111—Chemists

This unit group includes occupations, as described under the term title Chemist (Prof. and Technical, n.e.c.), concerned with research into the chemical and physical properties of elements and compounds and their behaviour under various conditions to develop analytical techniques and discover scientific facts. Specialization generally occurs in one or more branches of chemistry such as organic chemistry, inorganic chemistry, physical chemistry, analytical chemistry and biochemistry.

2112—Geologists

This unit group includes occupations concerned with the investigation of the composition, structure, physical and biological history of the earth's crust and the application of this knowledge in such fields as archaeology, mining and construction. Typical specializations include: economic geology, historic geology, mineralogy, mining geology, palaeontology, petroleum geology, petrology, physiography, structural geology and sub-surface geology.

2113—Physicists

This unit group includes occupations concerned with research into phases of physical phenomena to develop theories and laws by observation and experiment, and devise methods to apply this knowledge to problems in such fields as science, engineering, medicine and production.

2114—Meteorologists

This unit group includes occupations concerned with the investigation of atmospheric phenomena. Typical specializations include: synoptic meteorology, climatology, dynamic meteorology and physical meteorology.

2117—Physical Sciences Technologists and Technicians

This unit group includes occupations concerned with performing specialized tasks in direct support of physical scientists, utilizing theoretical knowledge to solve practical problems encountered in

such fields as chemistry, geology, physics, food technology, meteorology and metallurgy. Typical functional specializations include design; construction; experimentation; testing; and the preparation of drawings, specifications and reports. These occupations usually require completion of specialized courses at technological colleges or technical schools supplemented by on-the-job training and practical work experience. LIFE SCIENCES TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2135 and ENGINEERING TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2165.

2119 - Occupations in Physical Sciences, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with research in the physical sciences to discover and establish scientific principles and laws and apply them to specific scientific problems and situations in such fields as chemistry, physics, geology, meteorology and metallurgy. Physical metallurgists are in this unit group. Other metallurgists are in Unit Group 2151 - METALLURGICAL ENGINEERS. Occupations concerned with prospecting for minerals are in this unit group.

213 - OCCUPATIONS IN LIFE SCIENCES

This minor group includes occupations concerned with research to increase the basic knowledge of all living organisms and the practical application of this knowledge to such fields as biology, zoology, bacteriology, pharmacology and agricultural science. These occupations are classified in the following unit groups:

- 2131 Agriculturists and Related Scientists**
- 2133 Biologists and Related Scientists**
- 2135 Life Sciences Technologists and Technicians**
- 2139 Occupations in Life Sciences, n.e.c.**

2131 - Agriculturists and Related Scientists

This unit group includes occupations concerned with applying scientific principles to problems related to agriculture, horticulture and forestry; developing improved methods in cultivation, processing, handling and storing of agricultural products; land conservation practice; pest control; and landscape planning and related activities.

2133 - Biologists and Related Scientists

This unit group includes occupations concerned with research into the reproduction, growth, development, structure, life processes, behaviour and classification of all living organisms and the application of findings to the prevention of disease in the maintenance and promotion of health in plant and animal life. Activities include: investigating the economic utilization or harmful aspects of specific plants and animals; research in bacteriology and its relation to medicine; and the toxicology and therapeutic value of drugs.

2135 - Life Sciences Technologists and Technicians

This unit group includes occupations concerned with performing specialized tasks in direct support

of life scientists, utilizing theoretical knowledge to solve practical problems encountered in such fields as agriculture, horticulture, forestry, botany, zoology, biology and pharmacology. Typical functional specializations include laboratory experimentation, operation of special test equipment, and preparation of drawings, specifications and reports. These occupations usually require completion of specialized courses at technological colleges or technical schools supplemented by on-the-job training and practical work experience. PHYSICAL SCIENCES TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2117 and ENGINEERING TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2165.

2139 - Occupations in Life Sciences, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with research in the life sciences to increase the basic knowledge of all living organisms and the practical application of this knowledge to such fields as biology, zoology, bacteriology, pharmacology and agricultural science.

214/215 - ARCHITECTS AND ENGINEERS

This minor group includes occupations concerned with the practical application of physical laws and principles of architecture or engineering for the development and utilization of machines, materials, instruments, structures, processes and services. Typical functional specializations include research, design, construction, testing, production and operations. These occupations are classified in the following unit groups:

2141	Architects
2142	Chemical Engineers
2143	Civil Engineers
2144	Electrical Engineers
2145	Industrial Engineers
2147	Mechanical Engineers
2151	Metallurgical Engineers
2153	Mining Engineers
2154	Petroleum Engineers
2155	Aeronautical Engineers
2157	Nuclear Engineers
2159	Architects and Engineers, n.e.c.

2141 - Architects

This unit group includes occupations concerned with the design and construction of buildings and related structures according to aesthetic and functional factors.

2142 - Chemical Engineers

This unit group includes occupations concerned with the application of chemistry, other physical sciences and engineering principles, to manufacturing operations which involve chemical processes. Typical areas of specializations include industrial chemicals, plastics, synthetic textiles, foods, rubber products, nuclear fuels and petroleum refining.

2143 - Civil Engineers

This unit group includes occupations concerned with the planning, design, and supervision of the construction, maintenance and repair of structures and facilities; such as buildings, bridges, dams, tunnels, ports, docks, water-supply and sewage systems, transportation and other facilities for public, industrial or commercial use; and supervision and coordination of the work of technologists, technicians and skilled tradesmen. Typical areas of specialization include structural, hydraulic, environmental, irrigation and drainage, harbour, railway, highway, pipeline and tunnel engineering.

2144 - Electrical Engineers

This unit group includes occupations concerned with the design, construction and maintenance of equipment which produces, transmits or uses electrical energy, such as generators, telecommunications devices and electric motors. Occupations concerned with research into electrical and electronic theory, and the application of this theory to equipment design, are included. A knowledge of the techniques used in mechanical, civil and industrial engineering is required. Typical areas of specializations include electric power generation and distribution, electrical and electronic equipment

manufacturing, communications and electronic computer engineering.

2145 - Industrial Engineers

This unit group includes occupations concerned with design, installation and utilization of integrated systems involving personnel, materials, machinery and equipment; and with reviewing and analysing business and organizational systems in government and industry to improve methods and procedures. Activities include plant lay-outs, production standards and methods, cost control, quality control, safety engineering, management and its work simplification and measurement, forms and records management, design of budget systems, organizational studies and other studies or research in management or manufacturing problems. A knowledge of mechanical and various other engineering specialities may be applied. Electronic data-processing systems analysts are in Unit Group 2183-SYSTEMS ANALYSTS, COMPUTER PROGRAMMERS AND RELATED OCCUPATIONS. Management consultants are in Unit Group 1179-OCCUPATIONS RELATED TO MANAGEMENT AND ADMINISTRATION, N.E.C.

2147 - Mechanical Engineers

This unit group includes occupations concerned with the application of engineering and physics principles to the design, production and maintenance of tools and machines, and the generation, transmission and utilization of heat and mechanical power. A knowledge of the techniques used in electrical, civil and metallurgical engineering may be required. Typical areas of specializations include steam power generation, hydraulics, automotive engineering, heating and ventilation, and machine design.

2151 - Metallurgical Engineers

This unit group includes occupations concerned with developing flotation, melting, electrolytic and other processes used to separate metals from their

ores and to determine the most efficient methods of producing metals commercially. A knowledge of chemistry, geology, ceramics and mineralogy together with the techniques of chemical, mechanical and mining engineering is required. Extractive metallurgists are in this unit group. Physical metallurgists are in Unit Group 2119—OCCUPATIONS IN PHYSICAL SCIENCES, N.E.C.

2153—Mining Engineers

This unit group includes occupations concerned with collaboration in geological exploration, planning and development of the mine, advising on the extraction of minerals from the earth, and the supervision and coordination of the work of technologists, technicians and skilled tradesmen. Typical areas of specialization include exploration, planning, production, extraction, mine layout and safety.

2154—Petroleum Engineers

This unit group includes occupations concerned with studying geological surveys, earth samples and other data to advise on the means of developing oil and gas fields and the equipment to be used in the extraction, storage and initial treatment prior to transportation; and the supervision and coordination of the work of technologists, technicians and skilled tradesmen. Typical areas of specialization include exploration, drilling, core and mud analysis, conservation and transportation.

2155—Aeronautical Engineers

This unit group includes occupations concerned with research, planning and development of flight

systems and aero-vehicles for use in terrestrial atmosphere and outer space. A knowledge of electrical, industrial and mechanical engineering techniques is required. Typical functional specializations include aerodynamic design; flight-testing; structural dynamics; thermodynamics; weapons control research and systems; and aero-vehicle maintenance.

2157—Nuclear Engineers

This unit group includes occupations concerned with applying the principles and theory of nuclear science to problems concerned with release, control and utilization of nuclear energy for the transmutation of elements, and the production capabilities of nuclear reactors. A knowledge of chemical, civil, electrical, industrial, mechanical and metallurgical engineering techniques is required. Typical functional specializations include: thermonuclear analysis and utilization of radiation; design of reactors and nuclear energy systems; analysis of radiation effects and shielding design problems; processing radioactive materials and waste; and radiological safety control.

2159—Architects and Engineers, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with the practical application of physical laws and principles of architecture or engineering for the development and utilization of machines, materials, instruments, structures, processes and services.

216—OTHER OCCUPATIONS IN ARCHITECTURE AND ENGINEERING

This minor group includes occupations concerned with surveying, draughting and engineering technology. These occupations are classified in the following unit groups:

2160	Supervisors, Other Occupations In Architecture and Engineering
2161	Surveyors
2163	Draughtsmen
2165	Architectural and Engineering Technologists and Technicians
2169	Other Occupations in Architecture and Engineering, n.e.c.

2160—Supervisors, Other Occupations in Architecture and Engineering

This unit group includes occupations concerned with supervising and coordinating the activities of technicians and workers engaged in surveying, draughting and engineering technology.

2161—Surveyors

This unit group includes occupations concerned with determining exact location and measurements of points, elevations, lines, areas and contours of the earth's surface to secure data used for construction, map-making, land valuation, mining or other purposes.

Typical areas of specializations include geodetic surveying, geophysical prospecting, hydrographic surveying, land surveying and topographical surveying.

2163 - Draughtsmen

This unit group includes occupations concerned with preparing clear, complete and accurate working plans and detailed drawings to specified dimensions, from rough or detailed sketches or notes, for engineering or manufacturing purposes. Typical areas of specializations include architectural draughting, scientific and engineering draughting, topographical engineering and commercial draughting.

2165 - Architectural and Engineering Technologists and Technicians

This unit group includes occupations concerned with performing specialized tasks in conjunction with, or in direct support of, architects and various engineers, utilizing theoretical knowledge to solve

practical problems in such fields as chemical, civil, electrical, industrial, mechanical, metallurgical, mining, petroleum, aeronautical and nuclear engineering, architecture and surveying. Typical functional specializations include: design; planning; construction; inspecting and testing; production; methods and procedures; cost and quality control; preparation of sketches, specifications and reports; and highly specialized machining and applied mechanics. These occupations usually require completion of specialized courses at technological colleges or technical schools supplemented by on-the-job training and practical work experience. PHYSICAL SCIENCES TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2117 and LIFE SCIENCES TECHNOLOGISTS AND TECHNICIANS are in Unit Group 2135.

2169 - Other Occupations in Architecture and Engineering, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with architecture and engineering.

218 - OCCUPATIONS IN MATHEMATICS, STATISTICS, SYSTEMS ANALYSIS AND RELATED FIELDS

This minor group includes occupations concerned with research in mathematics, statistics and actuarial science, the application of original and standardized techniques to solve problems in science, engineering and management, and the programmed mathematical statement of problems to permit solution by electronic data-processing systems. These occupations are classified in the following unit groups:

- 2181 Mathematicians, Statisticians and Actuaries**
- 2183 Systems Analysts, Computer Programmers
 and Related Occupations**
- 2189 Occupations in Mathematics, Statistics,
 Systems Analysis and Related Fields,
 n.e.c.**

2181 - Mathematicians, Statisticians and Actuaries

This unit group includes occupations concerned with mathematical theory and the development and application of mathematical techniques for solving problems in fields such as science and engineering; with conducting total or sample surveys to compile statistical data and drawing valid conclusions; and with applying mathematical and statistical methods to calculate premium and benefit payments of financial programmes, such as insurance and annuities.

2183 - Systems Analysts, Computer Programmers and Related Occupations

This unit group includes occupations concerned with analysing and reviewing activities and operations of an organization to develop simplified and formalized procedures and preparing a series of

detailed coded instructions (programmes) to permit use of computers for solution of problems in fields such as science, business or production methods. A knowledge of other disciplines such as accounting, economics, theoretical physics and computer language is required. Occupations concerned with organizational and methods analysis are in Unit Group 2145 - INDUSTRIAL ENGINEERS. Occupations concerned with the operation of data-processing equipment are in Unit Group 4143 - ELECTRONIC DATA-PROCESSING EQUIPMENT OPERATORS.

2189 - Occupations in Mathematics, Statistics, Systems Analysis and Related Fields, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with research and development in mathematics, statistics, systems analysis and related fields.

MAJOR GROUP 23

OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS

This major group includes occupations concerned with assisting individuals, families and groups, to solve their social, economic and personal problems and planning and conducting social services to meet the needs of persons in a community; applying principles relating to statute law and its administration; and organizing, developing and maintaining libraries, archives, museums and art galleries. Natural science occupations are in Major Group 21 - OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND MATHEMATICS. Managerial occupations of social science and its related fields are in Unit Group 1132 - MANAGEMENT OCCUPATIONS, SOCIAL SCIENCES AND RELATED FIELDS. OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS are classified in the following minor groups:

- 231 Occupations in Social Sciences
- 233 Occupations in Social Work and Related Fields
- 234 Occupations in Law and Jurisprudence
- 235 Occupations in Library, Museum and Archival Sciences
- 239 Other Occupations in Social Sciences and Related Fields

231 - OCCUPATIONS IN SOCIAL SCIENCES

This minor group includes occupations concerned with human society and its characteristic elements, such as origin, race or state; and with economic and social relations and institutions involved in man's existence as a member of an organized community. These occupations are classified in the following unit groups:

- 2311 Economists
- 2313 Sociologists, Anthropologists and Related Social Scientists
- 2315 Psychologists
- 2319 Occupations in Social Sciences, n.e.c.

2311 - Economists

This unit group includes occupations concerned with conducting research and applying principles and theories of economics to formulate plans designed to aid in the solution of economic problems arising from production and distribution of goods and services; studying processes through which man makes a living and satisfies his need for products, shelter, service or amusement, and conditions favouring or hampering economic development; devising methods for collection and analysis of economic and statistical data and compiling and interpreting such data; preparing reports and compiling and formulating plans based on studies in economic fields and interpreted and analysed data; conducting demographic studies; advising and consulting private industrial concerns or government agencies on matters such as operating efficiency, marketing methods and research; and fiscal problems.

2313 - Sociologists, Anthropologists and Related Social Scientists

This unit group includes occupations concerned with investigating and tracing origin, development,

evaluation, way of life and social relationships of groups of human beings; collecting, organizing and interpreting scientific data relating to community organizations, social customs, family and other social phenomena, for use by administrators, lawmakers, educators and other individuals and organizations engaged in the solution of social problems; comparing physical characteristics of fossilized human remains with those of existing racial groups and making classifications according to period, origin, and degree of development; conducting research into cultural and social development, consulting sources of information such as recorded history, archaeological and ethnological studies, and findings in related sciences; and scientific study of human populations. Occupations in social work are in Unit Group 2331 - SOCIAL WORKERS.

2315 - Psychologists

This unit group includes occupations concerned with collecting, interpreting and applying scientific data relating to human behaviour and mental processes. Activities include: analysing effect of

heredity, environment, relationship to social groups and other factors on individual thought and behaviour; studying psychological factors involved in diagnosis, treatment and prevention of mental illness and emotional and personality disorders; working with psychiatrists, social workers and other persons to help maladjusted individuals; conducting interviews to determine causes of maladjustment in individuals, school, industry, community life and mental institutions, and to prescribe corrective programmes; developing and administering psychological tests, rating scales and other objective tools for measuring psychological traits, such as capacities, abilities, aptitudes and physiological reactions, and interpreting and evaluating resulting data, by applying

statistical techniques. Includes activities in either applied fields of psychology or basic science fields and research.

2319 — Occupations in Social Sciences, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with the application of theoretical or practical aspects of social sciences. Community planners are in this unit group. Home economists engaged in teaching are in Unit Group 2731 — ELEMENTARY AND KINDERGARTEN TEACHERS or in Unit Group 2733 — SECONDARY SCHOOL TEACHERS.

233 — OCCUPATIONS IN SOCIAL WORK AND RELATED FIELDS

This minor group includes occupations concerned with rendering assistance to individuals and groups with problems, such as poverty, illness, family maladjustment, antisocial behaviour, limited recreation opportunities and inadequate housing. These occupations are classified in the following unit groups:

- 2331 Social Workers**
- 2333 Occupations in Welfare and Community Services**
- 2339 Occupations in Social Work and Related Fields, n.e.c.**

2331 — Social Workers

This unit group includes occupations concerned with diagnosing and treating social inadequacies in and providing professional counselling to individuals or groups and recommending and applying solutions to difficult social problems that affect individuals and communities.

in social welfare work, such as organizing and supervising non-profit social, recreational and educational activities in youth clubs, community centres and similar organizations.

2333 — Occupations in Welfare and Community Services

This unit group includes occupations of a non-professional nature concerned with performing tasks similar to those of a social worker but specializing

2339 — Occupations in Social Work and Related Fields, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with activities in social work and related fields. Occupations concerned with soliciting financial contributions for social work programmes are in this unit group.

234 — OCCUPATIONS IN LAW AND JURISPRUDENCE

This minor group includes occupations concerned with the application of principles relating to statute, common and civil law and its administration, such as conducting criminal or civil law suits, drawing up legal documents, giving legal advice and presiding over judicial proceedings. These occupations are classified in the following unit groups:

- 2341 Judges and Magistrates**
- 2343 Lawyers and Notaries**
- 2349 Occupations in Law and Jurisprudence, n.e.c.**

2341 — Judges and Magistrates

This unit group includes occupations concerned with presiding over judicial proceedings and pronouncing judgements in courts of justice. Activities

include ruling on procedure in court, weighing the evidence presented, determining the rights and obligations of parties involved, instructing juries on points of law and pronouncing judgements.

2343 - Lawyers and Notaries

This unit group includes occupations concerned with drawing up and authenticating legal documents; taking affidavits and administering oaths and affirmations; pleading cases or conducting prosecutions in courts of justice; advising clients on the legal aspects of personal and business problems; and representing them in lawsuits.

2349 - Occupations in Law and Jurisprudence, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with the application of principles relating to statute and common law and its administration. Patent agents are in this unit group.

235 - OCCUPATIONS IN LIBRARY, MUSEUM AND ARCHIVAL SCIENCES

This minor group includes occupations concerned with library and archival sciences, including public and private libraries and archives, and the maintenance of museums, galleries, and related exhibits. These occupations are classified in the following unit groups:

- 2350 Supervisors: Occupations in Library, Museum and Archival Sciences**
- 2351 Librarians and Archivists**
- 2353 Technicians in Library, Museum and Archival Sciences**
- 2359 Occupations in Library, Museum and Archival Sciences, n.e.c.**

2350 - Supervisors: Occupations in Library, Museum and Archival Sciences

This unit group includes occupations concerned with supervising and coordinating activities of workers engaged in library, museum and archival sciences as well as superintending and organizing art galleries and similar establishments. Curators are in this unit group. Directors of museums and art galleries are in Unit Group 1132-MANAGEMENT OCCUPATIONS, SOCIAL SCIENCES AND RELATED FIELDS.

2353 - Technicians in Library, Museum and Archival Sciences

This unit group includes occupations concerned with performing specialized tasks usually in direct support of librarians, curators and archivists. Activities include: assisting in research projects; identifying and analysing collections of books, specimens, artifacts and papers; restoring various items such as books, paintings and artifacts; preparing exhibitions and displays; and assisting in the preparation of written material or drawings for exhibits or displays.

2351 - Librarians and Archivists

This unit group includes occupations concerned with organizing, developing and maintaining systematic collections of books and other recorded materials and making them available to users; and collecting and preserving permanent records and historically valuable documents.

2359 - Occupations in Library, Museum and Archival Sciences, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with designing exhibits for museums; preserving pictures, statues and other art objects, and searching for data requested by encyclopedia owners.

239 - OTHER OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS

This minor group includes occupations concerned with educational, vocational and other counselling, and other occupations concerned with assisting individuals and groups to solve their social, economic and personal problems. These occupations are classified in the following unit groups:

- 2391 Educational and Vocational Counsellors**
- 2399 Other Occupations in Social Sciences and Related Fields, n.e.c.**

2391 - Educational and Vocational Counsellors

This unit group includes occupations primarily concerned with rendering individual counselling and group guidance services or assisting students or workers in appraising their interests, aptitudes, abilities and personality characteristics; and presenting and explaining educational and occupational information to assist individuals in career planning. Includes collecting, analysing and developing occupational data.

2399 - Other Occupations in Social Sciences and Related Fields, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with such activities as counselling individuals in such fields as marriage or rehabilitation; and counselling members of professional associations. Includes other occupations, not elsewhere classified, concerned with assisting individuals and groups to solve their social, economic and personal problems.

MAJOR GROUP 25

OCCUPATIONS IN RELIGION

This major group includes occupations primarily concerned with providing spiritual and moral guidance to members of a religious faith or denomination and others, expounding religious doctrine and performing other activities associated with the practice of religions. These occupations are classified in the following minor group:

251 Occupations in Religion

251 - OCCUPATIONS IN RELIGION

This minor group includes occupations primarily concerned with ministering to the total spiritual needs of a congregation or community of a religious faith. Activities include: conducting services of public worship; administering sacraments; providing spiritual and moral motivation and guidance; supervising and conducting religious education; and other functions directly associated with the practice and exposition of religion. Occupations concerned with the performance of non-religious functions in fields such as teaching, social service work, nursing and communications media are classified in the major group of the specialization; for example, Major Group 23 - OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS, Major Group 27 - TEACHING AND RELATED OCCUPATIONS, and Major Group 31 - OCCUPATIONS IN MEDICINE AND HEALTH. OCCUPATIONS IN RELIGION are classified in the following unit groups:

- 2511 Ministers of Religion**
- 2513 Nuns and Brothers, n.o.r.**
- 2519 Occupations in Religion, n.e.c.**

2511 - Ministers of Religion

This unit group includes occupations concerned with providing the motivation, leadership and religious training for the spiritual life of a congregation or community of a religious faith or others. Activities include: conducting services of public worship; administering sacraments; supervising and conducting individual and family counselling and visits; maintaining religious traditions; supervising religious education; and performing other functions associated with the practice and exposition of a religious faith.

2513 - Nuns and Brothers, n.o.r.

This unit group includes nuns and brothers of religious orders, not otherwise reported, i.e. if a lay occupation is not reported in the census or

cannot be determined. Nuns and brothers performing lay duties, regardless of their nature, are to be classified to their lay work.

2519 - Occupations in Religion, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with providing direct support to ministers of religion in a full-time capacity. Workers classified in this unit group are either members of a religious order or qualified laity. Activities include: assisting at services of public worship and religious rites; providing religious education; counselling individuals and families; and engaging in faith healing. Religious leaders and teachers of religions other than Christianity or Judaism are also classified in this unit group.

MAJOR GROUP 27

TEACHING AND RELATED OCCUPATIONS

This major group includes occupations concerned with teaching and research in universities, elementary and secondary schools; technological, vocational and fine arts schools; and business, industry and government. School counsellors in educational institutions are in Minor Group 239 - OTHER OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS. Administrators in teaching are in Unit Group 1133 - ADMINISTRATORS IN TEACHING AND RELATED FIELDS. TEACHING AND RELATED OCCUPATIONS are classified in the following minor groups:

- 271 **University Teaching and Related Occupations**
- 273 **Elementary and Secondary School Teaching and Related Occupations**
- 279 **Other Teaching and Related Occupations**

271 - UNIVERSITY TEACHING AND RELATED OCCUPATIONS

This minor group includes occupations concerned primarily with teaching and research, and developing and implementing teaching programmes in universities and colleges. Athletic and recreation instructors at educational institutions, not engaged in class-room teaching of credit subjects, are classified in Unit Group 3370 - COACHES, TRAINERS, INSTRUCTORS AND MANAGERS, SPORT AND RECREATION. UNIVERSITY TEACHING AND RELATED OCCUPATIONS are classified in the following unit groups:

- 2711 **University Teachers**
- 2719 **University Teaching and Related Occupations, n.e.c.**

2711 - University Teachers

This unit group includes occupations concerned with teaching and research in the various disciplines of universities and degree-granting colleges. Activities include imparting knowledge, and assisting in the intellectual growth and development of the students. Teachers at this level usually specialize in one subject or several related subjects. University department heads are classified in Unit Group 1133 -

ADMINISTRATORS IN TEACHING AND RELATED FIELDS.

2719 - University Teaching and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with university teaching and related activities.

273 - ELEMENTARY AND SECONDARY SCHOOL TEACHING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with teaching and instructing, in teaching programmes in kindergarten, elementary and secondary schools. These occupations are classified in the following unit groups:

- 2731 **Elementary and Kindergarten Teachers**
- 2733 **Secondary School Teachers**
- 2739 **Elementary and Secondary School Teaching and Related Occupations, n.e.c.**

2731 - Elementary and Kindergarten Teachers

This unit group includes occupations concerned with teaching a variety of subjects below the secondary school level. Activities include: teaching basic subjects such as reading, writing, arithmetic and home economics in elementary schools; teaching songs and games and simple tasks; and instilling a

sense of cleanliness, obedience and cooperation in pupils in kindergarten or nursery schools.

2733 - Secondary School Teachers

This unit group includes occupations concerned with teaching students in junior and senior high school grades between the elementary school and

university or college levels. Includes all secondary schools whether teaching academic, commercial or technical subjects. Activities include teaching a group of related subjects, such as mathematics, physics and science, or languages; or teaching single subjects such as history, literature, industrial arts, music or home economics.

2739—Elementary and Secondary School Teaching and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with elementary and secondary school teaching.

279—OTHER TEACHING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with teaching and instructing in nursery schools and in technical, vocational, fine arts and teachers' colleges. Includes teaching, instructing and training occupations in business, industry, government and other teaching institutions. These occupations are classified in the following unit groups:

- 2791 Community College and Vocational School Teachers**
- 2792 Fine Arts School Teachers**
- 2793 Post-secondary School Teachers, n.e.c.**
- 2795 Teachers of Exceptional Students, n.e.c.**
- 2797 Instructors and Training Officers, n.e.c.**
- 2799 Other Teaching and Related Occupations, n.e.c.**

2791—Community College and Vocational School Teachers

This unit group includes occupations concerned with teaching, usually at post-secondary level, specialized subjects such as draughting, mechanics, electricity, welding, dietetics and medical technology in institutes of technology, nursing and vocational schools. Teachers in business colleges are included in this unit group. Secondary school teachers teaching similar subjects are classified in Unit Group 2733—SECONDARY SCHOOL TEACHERS.

2792—Fine Arts School Teachers

This unit group includes occupations concerned primarily with teaching or instructing students in art, music, drama or dancing in public or private schools, academies or conservatories.

2793—Post-secondary School Teachers, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with teaching at the post-secondary school level, in such institutions as normal schools, nursing schools, teachers colleges and bible training schools.

2795—Teachers of Exceptional Students, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with teaching

exceptional or handicapped students. Activities include: teaching, promoting and motivating the student's development and advancement into higher levels of learning and achievement; teaching the blind to read in braille, and to develop a sense of touch; instructing the deaf in sign language and lip reading; instructing mentally retarded, handicapped, exceptionally intelligent and problem students.

2797—Instructors and Training Officers, n.e.c.

This unit group includes occupations, not elsewhere classified, primarily concerned with teaching, instructing and training in business, industry and government. Activities include: instructing student pilots and ground crew in flight procedures and techniques, aviation regulations, meteorology and navigation; instructing individuals in proper care and handling of motor vehicles, and highway regulations; and training employees in the operation and maintenance of all types of equipment.

2799—Other Teaching and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with teaching and related activities. Educational technologists and technicians are in this unit group.

MAJOR GROUP 31

OCCUPATIONS IN MEDICINE AND HEALTH

This major group includes occupations concerned with the health care of humans and animals in the fields of medicine, dentistry and specializations in a particular phase of medicine and health. Activities include: preventing, diagnosing and treating diseases and illnesses; nursing; therapy; dietetics; prosthetics; dispensing pharmaceuticals; and prescribing and fitting eye-glasses. Assistants who perform similar work to those whom they assist are included in their respective unit groups. Occupations in social work are included in Minor Group 233 - OCCUPATIONS IN SOCIAL WORK AND RELATED FIELDS. Administrators in medicine and health are in Unit Group 1134 - ADMINISTRATORS IN MEDICINE AND HEALTH. OCCUPATIONS IN MEDICINE AND HEALTH are classified in the following minor groups:

- 311 Health Diagnosing and Treating Occupations**
- 313 Nursing, Therapy and Related Assisting Occupations**
- 315 Other Occupations in Medicine and Health**

311 - HEALTH DIAGNOSING AND TREATING OCCUPATIONS

This minor group includes occupations concerned with diagnosing of disease and prescribing medical, surgical, curative and preventive treatments for human and animal illnesses. Activities include: carrying out diagnostic procedures, providing therapeutic services, conducting medical research and performing related medical tasks. These occupations are classified in the following unit groups:

- 3111 Physicians and Surgeons**
- 3113 Dentists**
- 3115 Veterinarians**
- 3117 Osteopaths and Chiropractors**
- 3119 Health Diagnosing and Treating Occupations, n.e.c.**

3111 - Physicians and Surgeons

This unit group includes occupations concerned with diagnosing, preventing and treating diseases and illnesses in humans. Includes occupations of general practitioner in medicine and surgery; and specialists in medicine such as anaesthetists, neuro-surgeons, urologists, cardiologists, gynaecologists, pathologists, psychiatrists and radiologists. Interns and resident physicians in hospitals are in this unit group.

3113 - Dentists

This unit group includes occupations concerned with examining, diagnosing, preventing and treating ailments or abnormalities of gums and teeth, including oral surgery. Dental hygienists and assistants are included in Unit Group 3157 - DENTAL HYGIENISTS, ASSISTANTS AND TECHNICIANS.

3115 - Veterinarians

This unit group includes occupations concerned with diagnosis, prevention and treatment of animal

disorders. Activities include specialized veterinary work, in such fields as animal bacteriology, epidemiology, virology, pathology and pharmacology.

3117 - Osteopaths and Chiropractors

This unit group includes occupations concerned with diagnosing and treating, mainly by manipulative methods, disorders of bones, muscles, blood vessels and other tissues of the human body, and relieving illness due to pressure upon the nervous system by adjusting joints of the spine.

3119 - Health Diagnosing and Treating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with health diagnosis and treatments; such as, naturopathic medicine and podiatry.

313 - NURSING, THERAPY AND RELATED ASSISTING OCCUPATIONS

This minor group includes occupations concerned with professional and non-professional nursing care of the sick, injured or infirm; providing health services to assist physicians and dentists; and giving health treatment to patients. These occupations are classified in the following unit groups:

- 3130 Supervisors: Nursing Occupations
- 3131 Nurses, Graduate, Except Supervisors
- 3133 Nurses-in-training
- 3134 Nursing Assistants
- 3135 Nursing Aides and Orderlies
- 3137 Physiotherapists, Occupational and Other Therapists
- 3139 Nursing, Therapy and Related Assisting Occupations, n.e.c.

3130 - Supervisors: Nursing Occupations

This unit group includes occupations concerned with supervising and coordinating the activities of personnel engaged in nursing and related tasks.

3131 - Nurses, Graduate, Except Supervisors

This unit group includes occupations concerned with giving nursing care to the sick, injured and infirm; giving nursing advice; assisting physicians; and performing other nursing tasks in establishments; such as, hospitals, clinics, schools, industrial plants, private and nursing homes.

3133 - Nurses-in-training

This unit group includes only those student nurses who are being paid while in training in nursing schools.

3134 - Nursing Assistants

This unit group includes occupations concerned with giving routine nursing care to patients. Activities include: taking and recording temperature, pulse, respiration and blood pressure; giving baths, shaving patients; serving nourishments, and feeding patients.

3135 - Nursing Aides and Orderlies

This unit group includes occupations concerned with providing auxiliary services in the care of

patients. Activities include: answering patients' bells; serving and collecting food trays; feeding patients; adjusting beds; sitting with patients; and other routine tasks. Orderlies are mainly concerned with the care of male patients, setting up of equipment, and relieving nurses of heavier work. Nursing assistants are included in Unit Group 3134 - NURSING ASSISTANTS.

3137 - Physiotherapists, Occupational and Other Therapists

This unit group includes occupations concerned with therapeutic treatment of physically handicapped, impaired or disabled persons by physical, psychological and mechanical means. Includes treatment using heat, water, light, sound, exercise, massage and other means; treatment through activities such as printing, textile weaving, typing, and house-keeping duties; counselling; speech or hearing training; and creative activities such as oil painting and making articles of leather. Masseurs are in Unit Group 6149 - PERSONAL SERVICE OCCUPATIONS, N.E.C.

3139 - Nursing, Therapy and Related Assisting Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with nursing, therapy and related assisting occupations.

315 - OTHER OCCUPATIONS IN MEDICINE AND HEALTH

This minor group includes occupations concerned with compounding and dispensing medicaments, dietetics, prescribing and fitting eye-glasses, and applying technical knowledge in the fields of medicine and dentistry for examination and treatment of patients and for research. These occupations are classified in the following unit groups:

- 3151 Pharmacists
- 3152 Dietitians and Nutritionists
- 3153 Optometrists

- 3154 Dispensing Opticians**
- 3155 Radiological Technologists and Technicians**
- 3156 Medical Laboratory Technologists and Technicians**
- 3157 Dental Hygienists, Assistants and Technicians**
- 3159 Other Occupations in Medicine and Health, n.e.c.**

3151 - Pharmacists

This unit group includes occupations concerned with compounding and dispensing pharmaceuticals and related preparations according to prescriptions or formulae of physicians, dentists and other practitioners.

3152 - Dietitians and Nutritionists

This unit group includes occupations concerned with applying the principles of nutrition to plan and supervise the preparation and serving of meals. Activities include: planning menus and diets for special nutritional requirements, participating in research, advising individuals and lecturing to groups on nutrition.

3153 - Optometrists

This unit group includes occupations concerned with examining eyes, prescribing and fitting eyeglasses, and recommending physical treatment for eyes, such as exercises and visual training to conserve or improve vision, excluding the use of medicine, surgery or drugs. Ophthalmologists are in Unit Group 3111 - PHYSICIANS AND SURGEONS.

3154 - Dispensing Opticians

This unit group includes occupations concerned with arranging for the production of spectacle or contact lenses, assisting customers to choose frames, mounting lenses in frames, and fitting frames or contact lenses to customer. Occupations primarily concerned with edging, grinding and polishing spectacle and contact lenses are in Unit Group 8373 - ABRADING AND POLISHING OCCUPATIONS, CLAY, GLASS AND STONE, N.E.C.

3155 - Radiological Technologists and Technicians

This unit group includes occupations concerned with applying roentgen rays and radioactive substances to patients for diagnostic and therapeutic purposes under the supervision of a physician. Included are X-Ray machine operators in the medical and health field.

3156 - Medical Laboratory Technologists and Technicians

This unit group includes occupations concerned with performing various chemical, microscopic and bacteriologic tests to obtain data for use in diagnosis, treatment and control of diseases; and related auxiliary technical tasks, in the field of medicine. Activities include: specializing in one particular phase of work such as biochemistry, hematology, histology, mycology, parasitology and serology.

3157 - Dental Hygienists, Assistants and Technicians

This unit group includes occupations concerned with supportive work in the field of dentistry. Activities include: preventing oral disease; making artificial dentures and other dental appliances; and assisting dentist during dental procedures.

3159 - Other Occupations in Medicine and Health, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with activities in medicine and health, such as operating electrocardiograph, electroencephalograph and inhalation therapy equipment; infection control; designing and fitting prosthetic devices; and preparing baby formulas.

ARTISTIC, LITERARY, RECREATIONAL AND RELATED OCCUPATIONS

This major group includes occupations concerned with creative expression of artistic conceptions in a personally interpreted manner through fine or commercial art; product and interior design and photography; music, dancing, theatrical performance on stage or for broadcast; writing; and other means of informing, entertaining and adding to the pleasure of the public. Included are occupations concerned with gainful employment in athletics, sports and recreation. Occupations primarily concerned with teaching music, dancing and drama are in Major Group 27 - TEACHING AND RELATED OCCUPATIONS. Managerial and administrative occupations that cannot be classified in this major group according to work performed are in Unit Group 1149 - OTHER MANAGERS AND ADMINISTRATORS, N.E.C. ARTISTIC, LITERARY, RECREATIONAL AND RELATED OCCUPATIONS are classified in the following minor groups:

- 331 Occupations in Fine and Commercial Art, Photography and Related Fields
- 333 Occupations in Performing and Audio-visual Arts
- 335 Occupations in Writing
- 337 Occupations in Sport and Recreation

331 - OCCUPATIONS IN FINE AND COMMERCIAL ART, PHOTOGRAPHY AND RELATED FIELDS

This minor group includes occupations concerned with creating and executing artistic works in a personally interpreted manner, by painting, sculpturing, drawing, engraving and etching; applying artistic media for illustrative, decorative and sales promotion purposes; and photographing subjects with still or motion picture cameras. Supervisory occupations in this minor group are classified in the same unit groups as the workers they supervise. OCCUPATIONS IN FINE AND COMMERCIAL ART, PHOTOGRAPHY AND RELATED FIELDS are classified in the following unit groups:

- 3311 Painters, Sculptors and Related Artists
- 3313 Product and Interior Designers
- 3314 Advertising and Illustrating Artists
- 3315 Photographers and Cameramen
- 3319 Occupations in Fine and Commercial Art, Photography and Related Fields, n.e.c.

3311 - Painters, Sculptors and Related Artists

This unit group includes occupations concerned with creating and executing artistic works by sculpturing, painting, drawing, engraving and etching. Activities include: creating pictures, abstract designs and similar artistic compositions employing paints, pencils, pastels, ink or other media; creating three-dimensional decorative and representational forms by shaping materials such as wood, stone, clay or metal; drawing caricatures and creating cartoons to depict persons and events; and creating original designs and engraving or etching them on metal, wood or other materials for reproduction. Occupations concerned with painting, sculpture, engraving and etching in which work is performed on a production basis are classified in other major, minor and unit groups. Occupations concerned with conserving and restoring art works are in Minor Group 235 - OCCUPATIONS IN LIBRARY, MUSEUM AND ARCHIVAL SCIENCES. Occupations concerned with teaching fine arts are in Unit Group 2792 - FINE ARTS SCHOOL TEACHERS.

3313 - Product and Interior Designers

This unit group includes occupations concerned with creating designs for industrial and commercial products by harmonizing aesthetic considerations with technical and other requirements; and with designing interior decoration and planning furnishing of studios, homes, buildings and other establishments. Includes occupations concerned with designing and placing objects artistically in show windows and in similar exhibits.

3314 - Advertising and Illustrating Artists

This unit group includes occupations concerned with creating and executing illustrations and designs for books, magazines, posters, roadside billboards, television commercials and for other purposes related to advertising, illustration and the distribution of information. Scientific illustrators are in this unit group. Technical illustrators in the fields of engineering and architecture are in Unit Group 2163 - DRAUGHTSMEN.

3315 - Photographers and Cameramen

This unit group includes occupations concerned with photographing people, events, scenes, materials and products with still, motion picture, television, microscopic, aerial photography and other specialized cameras.

3319 - Occupations in Fine and Commercial Art, Photography and Related Fields, n.e.c.

This unit group includes occupations, not elsewhere classified, in fine and commercial art,

photography and related fields concerned with activities such as posing for artists and photographers; and performing routine, essentially non-creative aspects of art work or photography under the supervision of artists, photographers, cameramen or other professionals. Occupations concerned with processing exposed photographic still and motion picture film and making photographic prints are in Unit Group 9591 - PHOTOGRAPHIC PROCESSING OCCUPATIONS.

333 - OCCUPATIONS IN PERFORMING AND AUDIO-VISUAL ARTS

This minor group includes occupations concerned with the performing arts of music, dance, drama and other forms of entertainment to amuse, instruct or divert. Includes occupations in directing and producing of entertainment, instruction or advertising programmes and those who announce on radio and television broadcasts. Occupations primarily concerned with teaching the skills necessary for such performances are in Major Group 27 - TEACHING AND RELATED OCCUPATIONS. OCCUPATIONS IN PERFORMING AND AUDIO-VISUAL ARTS are classified in the following unit groups:

3330	Producers and Directors, Performing and Audio-visual Arts
3332	Musicians
3333	Dancers and Choreographers
3335	Actors
3337	Radio and Television Announcers
3339	Occupations in Performing and Audio-visual Arts, n.e.c.

3330 - Producers and Directors, Performing and Audio-visual Arts

This unit group includes occupations concerned with producing and directing, supervising and coordinating theatrical performances, motion pictures, programmes for radio and television, and other entertainment and instructional programmes.

3332 - Musicians

This unit group includes occupations concerned with composing, arranging, directing and performing instrumental or vocal music. Occupations primarily concerned with teaching music are in Major Group 27 - TEACHING AND RELATED OCCUPATIONS.

3333 - Dancers and Choreographers

This unit group includes occupations concerned with composing and performing dances. Activities include: creating dances and instructing dancers in their performance; performing dances as a soloist, with a partner or as a member of a dancing group. Occupations primarily concerned with teaching dancing are in Major Group 27 - TEACHING AND RELATED OCCUPATIONS.

3335 - Actors

This unit group includes occupations concerned with playing parts in dramatic productions, on the stage, for television, radio, motion pictures and in other settings. Includes occupations concerned with telling stories and reading literary works aloud to educate and entertain listeners.

3337 - Radio and Television Announcers

This unit group includes occupations concerned with announcing radio or television programmes; preparing, reading and commenting on news, sports and other broadcast events; and giving commentaries on public address systems at sporting and entertainment events. Incumbent must be primarily concerned with announcing rather than editing to be classified here. (See Unit Group 3352.)

3339 - Occupations in Performing and Audio-visual Arts, n.e.c.

This unit group includes performing and audio-visual arts occupations, not elsewhere classified, concerned with providing production support services such as, stage properties, costuming supervision

and special effects, assisting with planning and presentation of radio and television programmes; training and presenting animals; performing mystifying, humorous, provocative, thrilling and other acts to entertain audiences. Make-up artists are in Unit Group 6143 - BARBERS, HAIRDRESSERS AND RE-

LATED OCCUPATIONS. Radio and television broadcasting equipment operators, sound recording and reproduction equipment operators and motion picture projectionists are in Minor Group 955 - ELECTRONIC AND RELATED COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS, N.E.C.

335 - OCCUPATIONS IN WRITING

This minor group includes occupations concerned with originating and editing written material for publication in printed form and for spoken use, broadcasting and dramatic presentation. Includes authors, critics, columnists, editors, reporters, technical writers, script writers, continuity writers and others engaged in preparing written material on a free lance basis or as staff members of a publishing organization. These occupations are classified in the following unit groups:

- 3352 Writers and Editors
- 3355 Translators and Interpreters
- 3359 Occupations in Writing, n.e.c.

3352 - Writers and Editors

This unit group includes occupations concerned with writing for any form of publication, or for such activities as oral or dramatic presentation. Includes the occupations of editor, critic, reporter and those directly supervising the preparation of materials for publication, broadcasting or dramatic presentation. Activities include: writing, selecting, interpreting and editing news scripts and other materials for information, entertainment, broadcasting, sketches or advertising.

3355 - Translators and Interpreters

This unit group includes occupations concerned with translating written or spoken words from one language to another.

3359 - Occupations in Writing, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with writing and editing activities.

337 - OCCUPATIONS IN SPORT AND RECREATION

This minor group includes occupations concerned with selecting, training and managing athletes; giving instruction in professional sports; arranging and directing physical training programmes; officiating at games and sports competitions; participating in sports and athletics as players; and providing services directly related to sporting events and recreational activities. Occupations concerned with teaching athletics, sports and physical education in educational institutions are in Major Group 27 - TEACHING AND RELATED OCCUPATIONS. OCCUPATIONS IN SPORT AND RECREATION are classified in the following unit groups:

- 3370 Coaches, Trainers, Instructors and Managers, Sport and Recreation
- 3371 Referees and Related Officials
- 3373 Athletes
- 3375 Attendants, Sport and Recreation
- 3379 Occupations in Sport and Recreation, n.e.c.

3370 - Coaches, Trainers, Instructors and Managers, Sport and Recreation

This unit group includes occupations concerned with coaching, training, instructing and directing athletes for team sports; and training and instructing athletes and other individuals in competitive and recreational sport. Activities include: negotiating contracts with players; arranging for their participation in sports events; and giving instructions in

theatrical and practical aspects of sports and recreation, to individuals or groups desiring to gain sports skills or to increase physical fitness.

3371 - Referees and Related Officials

This unit group includes occupations concerned with observing and enforcing rules and regulations governing athletic games and competitions. Activities

include: refereeing competitive games; keeping scores and other records; judging performances and results in sporting events such as football, hockey, racing, skating and skiing; and verifying credentials of animals and persons engaged in sports and other special events.

3373 - Athletes

This unit group includes occupations concerned with active participation, for gain, in games or sports as competitor or player. Players who are mainly engaged in giving instruction in their sport are in Unit Group 3370-COACHES, TRAINERS, INSTRUCTORS AND MANAGERS, SPORT AND RECREATION.

3375 - Attendants, Sport and Recreation

This unit group includes occupations concerned with attending to the needs of persons engaged in

sports and recreational activities. Activities include: providing caddying and other services to golfers; golf course patrolling; attending to the needs of prize fighters; collecting fees; allocating equipment; and serving the participants at sports, recreation and amusement centres. Occupations concerned with providing personal services in service establishments are in Unit Group 6149-PERSONAL SERVICE OCCUPATIONS, N.E.C.

3379 - Occupations in Sport and Recreation, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with gainful employment in athletics, sports and recreation. Hunting, fishing and mountaineering guides are in this unit group. Travel and establishment guides are in Unit Group 6144-GUIDES.

MAJOR GROUP 41

CLERICAL AND RELATED OCCUPATIONS

This major group includes occupations concerned with recording, transcribing and typing data; composing correspondence; classifying and filing publications, correspondence and similar material; organizing and recording financial and other data into accounts and quantitative records; paying and receiving money; operating office machines and electronic data-processing equipment; storing, distributing and accounting for stores of materials; receiving clients and providing information; operating telephone switchboards; distributing mail and delivering messages; and performing other clerical activities. These occupations are classified in the following minor groups:

- 411 Stenographic and Typing Occupations**
- 413 Bookkeeping, Account-recording and Related Occupations**
- 414 Office Machine and Electronic Data-processing Equipment Operators**
- 415 Material Recording, Scheduling and Distributing Occupations**
- 416 Library, File and Correspondence Clerks and Related Occupations**
- 417 Reception, Information, Mail and Message Distribution Occupations**
- 419 Other Clerical and Related Occupations**

411 - STENOGRAPHIC AND TYPING OCCUPATIONS

This minor group includes occupations concerned with recording, transcribing and typing dictated or prepared material and performing minor administrative and general clerical duties. These occupations are classified in the following unit groups:

- 4110 Supervisors, Stenographic and Typing Occupations**
- 4111 Secretaries and Stenographers**
- 4113 Typists and Clerk-typists**

4110 - Supervisors, Stenographic and Typing Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in recording, transcribing and typing dictated or prepared material.

4111 - Secretaries and Stenographers

This unit group includes occupations concerned with taking dictation by shorthand writing; transcribing data by typewriter from shorthand notes or dictating machine; making appointments; answering

telephone calls; and performing general office duties. Executive secretaries are in Unit Group 1149 - OTHER MANAGERS AND ADMINISTRATORS, N.E.C.

4113 - Typists and Clerk-typists

This unit group includes occupations concerned with recording data by typewriter; transmitting or receiving messages by telex, teletype and telegraphic typewriter; and performing general office duties most of which involve typing. Transmitting and receiving messages by telegraph are in Unit Group 9553 - TELEGRAPH OPERATORS.

413 - BOOKKEEPING, ACCOUNT-RECORDING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with classifying and recording information about transactions or activities and transferring this data into accounts and quantitative records, and paying and receiving money. Accountants are in Unit Group 1171 - ACCOUNTANTS AND AUDITORS. BOOKKEEPING AND ACCOUNT-RECORDING OCCUPATIONS are classified in the following unit groups:

- 4130 Supervisors: Bookkeeping, Account-re-
cording and Related Occupations
- 4131 Bookkeepers and Accounting Clerks
- 4133 Cashiers and Tellers
- 4135 Insurance, Bank and Other Finance Clerks
- 4137 Statistical Clerks
- 4139 Bookkeeping, Account-recording and Re-
lated Occupations, n.e.c.

4130 - Supervisors, Bookkeeping, Account-recording and Related Occupations

This unit group includes occupations concerned with supervising and coordinating the activities of workers engaged in classifying and recording information about transactions or activities and interpreting this data into accounts and quantitative records, and paying and receiving money.

4131 - Bookkeepers and Accounting Clerks

This unit group includes occupations concerned with computing, classifying and recording data to keep sets of financial records; verifying accuracy of records related to payments, receipts and other transactions; posting entries in ledgers; balancing books; and compiling reports. Occupations concerned primarily with operating bookkeeping machines, computing machines and account-recording machines are in Unit Group 4141 - OFFICE MACHINE OPERATORS.

4133 - Cashiers and Tellers

This unit group includes occupations concerned with receiving and disbursing money in industrial establishments, stores, banks, trust companies, credit unions and other financial institutions. Most of these occupations involve use of adding machines, cash registers or change makers.

4135 - Insurance, Bank and Other Finance Clerks

This unit group includes occupations of a clerical nature concerned with insurance, banking, finance and real estate. Activities include: reviewing insurance applications; calculating premiums, dividends and cash surrender values; effecting policy changes; processing applications for loans and mortgages; checking ledgers, renting safety deposit boxes and recording security deposits; and compiling rental, sale or management data related to real estate.

4137 - Statistical Clerks

This unit group includes occupations concerned with compiling and tabulating statistics based on routine or special information, preparing reports on source material and supplying factual information to assist in the interpretation of statistical studies.

4139 - Bookkeeping, Account-recording and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with classifying, compiling and recording information and transferring this data to accounts and quantitative records. Activities include: measuring advertising space and computing cost; checking attendance at amusement centres; preparing contracts; and compiling demurage, freight tonnage and wharfing charges.

414 - OFFICE MACHINE AND ELECTRONIC DATA-PROCESSING EQUIPMENT OPERATORS

This minor group includes occupations primarily concerned with operating office machines and electronic data-processing equipment for classifying, posting, computing, duplicating and transcribing data; recording, extracting, comparing and reporting information; reproducing copies; preparing mail for distribution; and counting, sorting and wrapping coins. These occupations are classified in the following unit groups:

- 4140 Supervisors, Office Machine and Electronic
Data-processing Equipment Operators
- 4141 Office Machine Operators
- 4143 Electronic Data-processing Equipment Op-
erators

4140 - Supervisors, Office Machine and Electronic Data-processing Equipment Operators

This unit group includes occupations, as described under the master title SUPERVISOR/

FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers primarily engaged in operating office machines and electronic data-processing equipment for classifying, posting,

computing, duplicating and transcribing data; recording, extracting, comparing and reporting information; reproducing copies; preparing mail for distribution; and counting, wrapping and sorting coins.

4141 - Office Machine Operators

This unit group includes occupations primarily concerned with operating office machines such as bookkeeping, billing, adding, calculating, accounting, duplicating, addressing, folding and inserting, coin sorting, counting and wrapping machines for recording, computing and classifying data about business transactions or activities; reproducing copies; preparing mail for distribution; and performing other general office duties. Occupations concerned with operating electronic data-processing equipment are

in Unit Group 4143 - ELECTRONIC DATA-PROCESSING EQUIPMENT OPERATORS.

4143 - Electronic Data-processing Equipment Operators

This unit group includes occupations concerned with operating electronic and electro-mechanical machines that record, store, process and transcribe data from punch cards, paper tape, magnetic tape or other sources, solve mathematical engineering or technical problems and keep records or supply information. Includes operating key-punch machines to transcribe data to and from punch cards or tape for use with electronic data-processing equipment. Occupations concerned with operating bookkeeping and similar machines are in Unit Group 4141 - OFFICE MACHINE OPERATORS.

415 - MATERIAL RECORDING, SCHEDULING AND DISTRIBUTING OCCUPATIONS

This minor group includes occupations concerned with receiving, storing, scheduling, issuing, shipping, requisitioning and accounting for stores of material or material in use. Activities include: assigning locations and space to items; verifying quantity, identification, condition and value; binning, picking, stacking and counting, preparing or committing stocks for shipment; taking inventory of stock; replenishing depleted items; filling orders; and issuing tools, equipment or material to workers. These occupations are classified in the following unit groups:

4150	Supervisors: Material Recording, Scheduling and Distributing Occupations
4151	Production Clerks
4153	Shipping and Receiving Clerks
4155	Stock Clerks and Related Occupations
4157	Weighers
4159	Material Recording, Scheduling and Distributing Occupations, n.e.c.

4150 - Supervisors: Material Recording, Scheduling and Distributing Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in receiving, storing, scheduling, issuing, shipping, requisitioning and accounting for stores of material or material in use.

4151 - Production Clerks

This unit group includes occupations concerned with examining orders for goods and preparing schedules showing number and type of units to be produced; routing parts for fabricating or repair operations; scheduling work and delivering parts to ensure that time limits are met and that production quotas are maintained; scheduling shipment of parts; and compiling records and reports.

4153 - Shipping and Receiving Clerks

This unit group includes occupations concerned with assembling, packing, addressing, stamping, loading and shipping goods; and receiving, unpacking, sorting, verifying and recording incoming goods. Occupations primarily concerned with storing, distributing, issuing, taking inventory and requisitioning stock are in Unit Group 4155 - STOCK CLERKS AND RELATED OCCUPATIONS.

4155 - Stock Clerks and Related Occupations

This unit group includes occupations concerned with receiving, storing and distributing supplies, material and equipment, usually in a stockroom or warehouse. Includes taking inventories, estimating future requirements, keeping records, and pricing and requisitioning stock.

4157 - Weighers

This unit group includes occupations primarily concerned with weighing materials, products, railway cars and other vehicles, and keeping relevant records.

4159 - Material Recording, Scheduling and Distributing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with receiving, storing, shipping, distributing, requisitioning and accounting for stores of equipment or material in use.

416 - LIBRARY, FILE AND CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS

This minor group includes occupations concerned with composing correspondence and related material to obtain or provide information; making records; and classifying and filing publications, correspondence and other related data in offices and libraries. These occupations are classified in the following unit groups:

- 4160 Supervisors: Library, File and Correspondence Clerks and Related Occupations**
- 4161 Library and File Clerks**
- 4169 Library, File and Correspondence Clerks and Related Occupations, n.e.c.**

4160 - Supervisors: Library, File and Correspondence Clerks and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in composing correspondence and examining documents to obtain or provide information, and recording, classifying and filing publications, correspondence and other related data in offices and libraries.

publications, correspondence and other material in offices and libraries; lending books and issuing files; updating library catalogues, file indexes and records; and examining, sorting and filing correspondence and other data. Library technical assistants are in Unit Group 2353-TECHNICIANS IN LIBRARY, MUSEUM AND ARCHIVAL SCIENCES.

4169 - Library, File and Correspondence Clerks and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with composing correspondence, and recording and filing materials such as publications, newspaper advertisements, cancellation lists and other data in offices and libraries.

4161 - Library and File Clerks

This unit group includes clerical occupations concerned with recording, classifying and filing

417 - RECEPTION, INFORMATION, MAIL AND MESSAGE DISTRIBUTION OCCUPATIONS

This minor group includes occupations concerned with receiving clients and customers, making appointments, giving information in person and by telephone, distributing mail, delivering messages and operating telephone switchboards. These occupations are classified in the following unit groups:

- 4170 Supervisors: Reception, Information, Mail and Message Distribution Occupations**
- 4171 Receptionists and Information Clerks**
- 4172 Mail Carriers**
- 4173 Mail and Postal Clerks**
- 4175 Telephone Operators**
- 4177 Messengers**
- 4179 Reception, Information, Mail and Message Distribution Occupations, n.e.c.**

4170 - Supervisors: Reception, Information, Mail and Message Distribution Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in receiving clients and customers; making appointments; giving information in person and by telephone; distributing mail; delivering messages; and operating telephone switchboards.

4171 - Receptionists and Information Clerks

This unit group includes occupations concerned with receiving clients and customers in offices and establishments, making appointments, providing information and answering enquiries by telephone or in person.

4172 - Mail Carriers

This unit group includes occupations concerned with arranging and delivering mail according to specified route, recording delivery of registered mail and collecting money for cash-on-delivery packages.

4173 - Mail and Postal Clerks

This unit group includes occupations in government or private business concerned with preparing,

sorting and bagging mail; computing postal costs; recording daily transactions; selling postage stamps and money orders; and registering and insuring mail.

4175 - Telephone Operators

This unit group includes occupations concerned with operating public and private telephone switchboards to relay incoming, inter-office and outgoing calls; computing toll charges; supplying information; and keeping related records.

4177 - Messengers

This unit group includes occupations concerned with running errands; sorting, delivering and collecting letters, packages and messages; distributing office supplies; and performing similar routine duties.

4179 - Reception, Information, Mail and Message Distribution Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with receiving clients and customers, and distributing information, mail and messages.

419 - OTHER CLERICAL AND RELATED OCCUPATIONS

This minor group includes clerical occupations not elsewhere classified. These occupations are classified in the following unit groups:

4190	Supervisors, Other Clerical and Related Occupations, n.e.c.
4191	Collectors
4192	Adjusters, Claim
4193	Travel Clerks, Ticket, Station and Freight Agents
4194	Hotel Clerks
4195	Personnel Clerks
4197	General Office Clerks
4199	Other Clerical and Related Occupations, n.e.c.

4190 - Supervisors, Other Clerical and Related Occupations, n.e.c.

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in clerical occupations not elsewhere classified.

4191 - Collectors

This unit group includes occupations concerned with collecting payments on accounts; tracing customers whose addresses are unknown; and collecting money. Other collectors are classified according to the items they collect.

4192 - Adjusters, Claim

This unit group includes occupations concerned with investigating, validating and settling loss, damage or other customers' claims or complaints concerning merchandise or services.

4193 - Travel Clerks, Ticket, Station and Freight Agents

This unit group includes occupations concerned with clerical duties related to travel and transportation such as arranging itineraries, providing tickets and reserving accommodation for travellers, selling airline, bus, railroad and steamship tickets, and controlling and expediting movement of passengers, freight, baggage and mail through terminals.

4194 - Hotel Clerks

This unit group includes occupations in hotels and related establishments concerned with registering guests, renting rooms, checking keys and valuables and supplying information.

4195 - Personnel Clerks

This unit group includes occupations concerned with activities related to the hiring of personnel and keeping related records, providing pertinent information to job seekers, investigating applicants' work history, and compiling and keeping personnel information relevant to such activities as recruitment, training, promotion, attendance, retirement and discharge of employees.

4197 - General Office Clerks

This unit group includes occupations concerned with performing any combination of clerical activities which are too general in nature to be classified in any particular unit group.

4199 - Other Clerical and Related Occupations, n.e.c.

This unit group includes clerical occupations not elsewhere classified. Occupations concerned with inspecting, testing, grading and sampling are in this unit group.

MAJOR GROUP 51

SALES OCCUPATIONS

This major group includes occupations concerned with selling commodities and services, buying commodities for resale, and with conducting wholesale and retail businesses on their own or owners' behalf or in partnership. Managing supervisors of individual chain stores and of departments in stores are in this major group. Sales managers are in Unit Group 1137 - SALES AND ADVERTISING MANAGEMENT OCCUPATIONS. SALES OCCUPATIONS are classified in the following minor groups:

513/514 Sales Occupations, Commodities

517 Sales Occupations, Services

519 Other Sales Occupations

513/514 - SALES OCCUPATIONS, COMMODITIES

This minor group includes occupations concerned with conducting wholesale or retail businesses which sell commodities, on own or owners' behalf or in partnership; supervising and coordinating activities of workers directly and indirectly engaged in selling commodities; selling equipment and providing technical information about its composition, utilization and maintenance; selling commodities on a wholesale basis in an allotted geographical area; and selling and demonstrating commodities in wholesale and retail trade establishments, in homes, on the street, and from door-to-door. Sales managers are in Unit Group 1137 - SALES AND ADVERTISING MANAGEMENT OCCUPATIONS. SALES OCCUPATIONS, COMMODITIES are classified in the following unit groups:

- 5130 Supervisors: Sales Occupations, Commodities
- 5131 Technical Salesmen and Related Advisers
- 5133 Commercial Travellers
- 5135 Salesmen and Salespersons: Commodities, n.e.c.
- 5137 Sales Clerks, Commodities
- 5141 Street Vendors and Door-to-door Salesmen
- 5143 Newsboys
- 5145 Service Station Attendants
- 5149 Sales Occupations: Commodities, n.e.c.

5130 - Supervisors: Sales Occupations, Commodities

This unit group includes occupations, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), concerned with conducting wholesale or retail businesses, on own or owners' behalf or in partnership; or supervising and coordinating the activities of workers engaged in selling commodities.

sulting from proposed changes in materials, machines or methods; and drawing up or arranging for the preparation of plans and operating specifications. These occupations require a scientific or technical knowledge normally obtained from at least two or three years of post-secondary school education or its equivalent.

5131 - Technical Salesmen and Related Advisers

This unit group includes occupations concerned with selling scientific and technical commodities of a chemical, mechanical, electrical or electronic nature, power and associated services. Duties include: providing specialized information to architects, engineers or other potential customers about the composition, installation, utilization and maintenance of their product; preparing or arranging for preparation of financial and operational estimates to show cost reduction or efficiency increase re-

5133 - Commercial Travellers

This unit group includes occupations concerned with selling commodities on a wholesale basis in an allotted geographical area to wholesale, retail, industrial, professional or other establishments. Duties include: soliciting orders from established clientele and attempting to secure new customers; showing samples or catalogue illustrations of products to prospective buyers and explaining their merit; quoting prices, and credit and discount terms; arranging delivery schedules; processing orders to office or warehouse; resolving customer complaints;

and keeping abreast of the latest market conditions, product innovations and price changes.

5135 - Salesmen and Salespersons: Commodities, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with selling commodities in wholesale and retail trade establishments by performing duties as described under the master title, SALESMAN (ret. trade; whole. trade), or under the master title, SALESPERSON (ret. trade; whole. trade).

5137 - Sales Clerks, Commodities

This unit group includes occupations concerned with selling commodities, usually in retail trade establishments, for which a knowledge of the item sold is not a primary requirement; stocking shelves with merchandise; wrapping and packing customers' purchases; receiving payment for goods and making change; and keeping records of sales.

5141 - Street Vendors and Door-to-door Salesmen

This unit group includes occupations concerned with selling products such as fruit and vegetables or soliciting orders on street or from door-to-door.

5143 - Newsboys

This unit group includes occupations concerned with delivering newspapers to regular subscribers and collecting money, or selling newspapers on streets or from newspaper stands.

5145 - Service Station Attendants

This unit group includes occupations concerned with selling fuel, lubricants and miscellaneous automotive products to customers of a gasoline service station and performing such services as cleaning, lubricating and minor repairs to motor vehicles.

5149 - Sales Occupations: Commodities, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with selling commodities, such as those who sell cigarettes and novelties in nightclubs, and programmes and refreshments at fairs or sports and other recreational events. Auctioneers and related workers are in this unit group.

517 - SALES OCCUPATIONS, SERVICES

This minor group includes occupations concerned with conducting businesses which sell services such as insurance, real estate, securities and advertising on own or owners' behalf or in partnership; supervising and coordinating activities of workers directly and indirectly engaged in selling services; selling life, endowment, fire, accident and other types of insurance; selling and leasing real estate property such as building lots, houses, apartments and estates; buying and selling securities such as stocks and bonds; and selling advertising and business services such as credit information, address listing, debt collecting, burglary, fire and other protection, cleaning and other business services. Sales managers are in Unit Group 1137 - SALES AND ADVERTISING MANAGEMENT OCCUPATIONS. SALES OCCUPATIONS, SERVICES are classified in the following unit groups:

5170	Supervisors: Sales Occupations, Services
5171	Insurance Salesmen and Agents
5172	Real Estate Salesmen
5173	Salesmen and Traders, Securities
5174	Advertising Salesmen
5177	Business Services Salesmen
5179	Sales Occupations: Services, n.e.c.

5170 - Supervisors: Sales Occupations, Services

This unit group includes occupations, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), concerned with conducting businesses on own or owners' behalf or in partnership, which sell services such as insurance, securities, real estate and advertising; or supervising and coordinating the activities of workers engaged in selling services.

5171 - Insurance Salesmen and Agents

This unit group includes occupations concerned with selling life, endowment, fire, accident and other types of insurance to clients; drafting contracts between insurance agents and insurance companies; determining whether applicants are good risks; approving or disapproving insurance applications received from agents; and investigating insurance claims and trying to effect settlement.

5172 - Real Estate Salesmen

This unit group includes occupations concerned with renting, buying, selling and appraising real property such as building lots, houses, apartments and estates; advertising property for rent or sale; and renting space for outdoor advertising.

5173 - Salesmen and Traders, Securities

This unit group includes occupations concerned with buying and selling securities in accordance with customers' wishes; advising and furnishing them with information regarding stocks, bonds, market conditions and history and prospects of organization in which investment is contemplated.

5174 - Advertising Salesmen

This unit group includes occupations concerned with soliciting business for display or classified

advertising in publications or outdoor advertising; selling art work to advertising agencies or industrial firms for use in composing advertising material; and selling advertising time on radio and television programmes.

5177 - Business Services Salesmen

This unit group includes occupations concerned with selling services such as building maintenance, credit reporting, bookkeeping, security, printing and telecommunications to industrial, commercial, institutional, professional and other enterprises.

5179 - Sales Occupations: Services, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with selling services such as dance instruction and television cable service.

519 - OTHER SALES OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with conducting wholesale or retail trade businesses on own or owners' behalf or in partnership; supervising and coordinating activities of workers directly or indirectly engaged in other sales occupations; buying commodities for resale in the wholesale and retail trade; driving vehicles over established routes to deliver and sell bakery and dairy products and to collect and deliver laundry and dry cleaning; selling, renting, and demonstrating goods and services; and appraising commodities. Sales managers are in Unit Group 1137 - SALES AND ADVERTISING MANAGEMENT OCCUPATIONS. OTHER SALES OCCUPATIONS are classified in the following unit groups:

- 5190 Supervisors, Other Sales Occupations**
- 5191 Buyers, Wholesale and Retail Trade**
- 5193 Driver-salesmen**
- 5199 Other Sales Occupations, n.e.c.**

5190 - Supervisors, Other Sales Occupations

This unit group includes occupations, not elsewhere classified, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), concerned with conducting businesses on own or owners' behalf or in partnership; or supervising and coordinating workers directly and indirectly engaged in buying commodities for resale in wholesale and retail trade; driving vehicles to deliver and sell commodities and services; selling, renting and demonstrating goods and services; and appraising commodities.

5191 - Buyers, Wholesale and Retail Trade

This unit group includes occupations concerned with buying commodities for resale in wholesale and retail trade. Purchasing agents and officers and buyers who buy for internal use or for processing, rather than resale, are classified in Unit Group 1175 -

PURCHASING OFFICERS AND BUYERS, EXCEPT WHOLESALE AND RETAIL TRADE.

5193 - Driver-salesmen

This unit group includes occupations concerned with driving trucks or other vehicles over an established route to deliver and sell goods such as dairy and bakery products, collect and deliver items such as laundry and dry-cleaned garments, or collect coins and refill vending machines. Deliverymen who do no selling but may collect payment for goods delivered are in Unit Group 9175 - TRUCK DRIVERS.

5199 - Other Sales Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with activities such as selling, renting, and demonstrating goods and services and with appraising commodities.

MAJOR GROUP 61

SERVICE OCCUPATIONS

This major group includes occupations concerned with providing protection against fire, crime, accidents, war and other emergencies; providing catering services including cooking, preparing and serving food and beverages; providing accommodation services; maintaining cleanliness in establishments such as hotels, motels, lodging houses, apartment and office buildings; escorting guests and handling baggage; preparing sleeping accommodation; providing funeral arrangements, embalming and cemetery services; cutting and styling hair, and giving beauty treatments to patrons; providing personal services such as caring for children, ushering, and arranging for people's comfort on tours, aboard ships and airplanes; washing, cleaning, drying, pressing and dyeing apparel and textile furnishings; cleaning building interiors and equipment, operating elevators, tending heating equipment and performing minor maintenance repairs; and providing other related services. Managers of chains of food and beverage, lodging, apparel and furnishings, and building interior cleaning establishments are in Unit Group 1142—SERVICES MANAGEMENT OCCUPATIONS. SERVICE OCCUPATIONS are classified in the following minor groups:

- 611 Protective Service Occupations**
- 612 Food and Beverage Preparation and Related Service Occupations**
- 613 Occupations in Lodging and Other Accommodation**
- 614 Personal Service Occupations**
- 616 Apparel and Furnishings Service Occupations**
- 619 Other Service Occupations**

611—PROTECTIVE SERVICE OCCUPATIONS

This minor group includes occupations concerned with providing protection against fire, crime, accidents, damage, war and other emergencies, and maintaining custody of prisoners in jails, reformatories or penitentiaries. Occupations in the armed forces are in this minor group. Supervisors are in the same unit group as the workers they supervise. These occupations are classified in the following unit groups:

- 6111 Fire-fighting Occupations**
- 6112 Policemen and Detectives, Government**
- 6113 Policemen and Investigators, Private**
- 6115 Guards and Watchmen**
- 6116 Commissioned Officers, Armed Forces**
- 6117 Other Ranks, Armed Forces**
- 6119 Protective Service Occupations, n.e.c.**

6111—Fire-fighting Occupations

This unit group includes occupations concerned with providing protection against fire, fighting fires, protecting lives and property, inspecting fire-fighting equipment for serviceability, detecting fire hazards, recommending appropriate fire prevention measures, and with supervising and coordinating the activities of workers in fire-fighting occupations. Fire chiefs are in this unit group. Fire marshalls are in Unit Group 1119—OFFICIALS AND ADMINISTRATORS UNIQUE TO GOVERNMENT, N.E.C.

6112—Policemen and Detectives, Government

This unit group includes occupations concerned with protecting the public; maintaining law and

order; detecting and preventing crime; directing and controlling traffic; investigating and apprehending suspects in criminal cases; and with supervising and coordinating the activities of government policemen and detectives. Police chiefs are in this unit group. Police commissioners are in Unit Group 1119—OFFICIALS AND ADMINISTRATORS UNIQUE TO GOVERNMENT, N.E.C.

6113—Policemen and Investigators, Private

This unit group includes occupations concerned with protecting private property against thievery and malicious damage; maintaining order; investigating irregularities concerning fire, sabotage and intrusions; conducting private investigations on a fee

basis; and with supervising and coordinating the activities of private policemen and investigators.

6115 - Guards and Watchmen

This unit group includes occupations concerned with guarding railroad crossings to warn motorists and pedestrians of approaching trains; protecting property from illegal entry, fire and theft; ensuring safety of people and property; guarding, disciplining and maintaining custody of prisoners in jails, reformatories or penitentiaries; and with supervising and coordinating the activities of guards and watchmen. Prison wardens are in Unit Group 1119 - OFFICIALS AND ADMINISTRATORS UNIQUE TO GOVERNMENT, N.E.C.

6116 - Commissioned Officers, Armed Forces

This unit group includes occupations of commissioned officers of the Armed Forces concerned with preserving the peace by supporting collective defence measures to deter military aggression; providing for the surveillance and protection of Canadian territory, air space and coastal waters; and providing aid to civil authorities as requested

in situations such as civil disorder, natural disaster, or other emergencies. This unit group is designed specifically for census purposes, and has no individual occupational definitions.

6117 - Other Ranks, Armed Forces

This unit group includes occupations of other ranks of the Armed Forces concerned with preserving the peace by supporting collective defence measures to deter military aggression; providing for the surveillance and protection of Canadian territory, air space and coastal waters; and providing aid to the civil authorities as requested in situations such as civil disorder, natural disaster, or other emergencies. This unit group is designed specifically for census purposes, and has no individual occupational definitions.

6119 - Protective Service Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with providing other protective services such as enforcing fish and game regulations and guarding private persons from injury.

612 - FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

This minor group includes occupations concerned with providing food and beverage catering services; cooking and preparing food; mixing and dispensing alcoholic drinks; arranging dining accommodation; receiving clients and serving food and beverages, and performing other related activities. FOOD, BEVERAGE AND RELATED PROCESSING OCCUPATIONS are in Minor Group 821/822. Managers of chains of food and beverage establishments are in Unit Group 1142 - SERVICES MANAGEMENT OCCUPATIONS. FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS are classified in the following unit groups:

- | | |
|-------------|---|
| 6120 | Supervisors, Food and Beverage Preparation and Related Service Occupations |
| 6121 | Chefs and Cooks |
| 6123 | Bartenders |
| 6125 | Waiters, Hostesses and Stewards, Food and Beverage |
| 6129 | Food and Beverage Preparation and Related Service Occupations, n.e.c. |

6120 - Supervisors, Food and Beverage Preparation and Related Service Occupations

This unit group includes occupations, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), concerned with providing food and beverage catering services on own or owners' behalf, or in partnership; or with supervising and coordinating the activities of workers engaged in preparing and serving food and beverages, and performing other related activities. Managers of chains of food and beverage establishments are in Unit Group 1142 - SERVICES MANAGEMENT OCCUPATIONS.

6121 - Chefs and Cooks

This unit group includes occupations concerned with planning menus, ordering supplies, and preparing and cooking foods in hotels, restaurants, clubs, private households and other non-manufacturing establishments. Bakers and pastry cooks are in Unit Group 8213 - BAKING, CONFECTIONERY MAKING AND RELATED OCCUPATIONS.

6123 - Bartenders

This unit group includes occupations concerned with mixing and dispensing alcoholic drinks and beverages.

6125 - Waiters, Hostesses and Stewards, Food and Beverage

This unit group includes occupations concerned with reserving and arranging dining room tables, greeting and seating customers; and serving food and beverages in such places as hotels, clubs, restaurants, cocktail lounges, ships and railway dining cars. HOSTESSES AND STEWARDS, EXCEPT FOOD AND BEVERAGE are in Unit Group 6145.

6129 - Food and Beverage Preparation and Related Service Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with food and beverage preparation and related services, such as examining food samples, food service records and other data to determine sales appeal and cost of preparing and serving meals and beverages; and assembling or packing food and beverages for serving.

613 - OCCUPATIONS IN LODGING AND OTHER ACCOMMODATION

This minor group includes occupations concerned with providing accommodation in hotels, motels, tourist homes, lodging houses and office buildings; cleaning and maintaining upkeep of such establishments; escorting guests; handling baggage; and preparing sleeping accommodation. Managers of chains of hotels, motels and lodging houses are in Unit Group 1142 - SERVICES MANAGEMENT OCCUPATIONS. OCCUPATIONS IN LODGING AND OTHER ACCOMMODATION are classified in the following unit groups:

- 6130 Supervisors, Occupations in Lodging and Other Accommodation**
- 6131 Managers: Hotel, Motel and Other Accommodation**
- 6133 Chambermaids and Housemen**
- 6135 Sleeping-car and Baggage Porters, and Bellmen**
- 6139 Occupations in Lodging and Other Accommodation, n.e.c.**

6130 - Supervisors, Occupations in Lodging and Other Accommodation

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in cleaning and servicing apartment houses, guest rooms in hotels, motels, tourist homes and other lodging facilities; and in providing related services such as preparing sleeping accommodation on trains and handling baggage. Housekeepers of private households are in Unit Group 6149 - PERSONAL SERVICE OCCUPATIONS, N.E.C.

6131 - Managers: Hotel, Motel and Other Accommodation

This unit group includes occupations, as described under the master title MANAGING SUPERVISOR (any ind.), concerned with providing accommodation services in establishments such as hotels, motels, trailer parks, apartment houses, office buildings and other similar facilities on own or owners' behalf, or in partnership. Managers of chains of hotels, motels and lodging houses are in Unit Group 1142 - SERVICES MANAGEMENT OCCUPATIONS.

6133 - Chambermaids and Housemen

This unit group includes occupations concerned with making beds, replenishing linens, cleaning rooms, halls, arranging furniture and performing related services in hotels, motels, tourist homes and in other lodging facilities. Charwomen are in Unit Group 6191 - JANITORS, CHARWORKERS AND CLEANERS.

6135 - Sleeping-car and Baggage Porters, and Bellmen

This unit group includes occupations concerned with handling baggage in trains, at hotels, motels, transport terminals and other similar establishments; preparing sleeping berths; escorting guests to rooms; and performing a variety of related duties, such as calling taxis, running errands and giving information.

6139 - Occupations in Lodging and Other Accommodation, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with providing lodging and related services such as housekeeping and maintenance at tourist camps, motels, trailer parks, vacation resorts or lodges.

614- PERSONAL SERVICE OCCUPATIONS

This minor group includes occupations concerned with providing personal services such as the disposal of dead human bodies; cutting and styling hair; cleaning and polishing fingernails and applying cosmetics; escorting and looking after the comfort of people on trips, sightseeing tours and excursions, on buses, ships and airplanes; caring for children; ushering; and other domestic and personal service duties. Working proprietors and supervisors are classified in the same unit groups as the workers they supervise. These occupations are classified in the following unit groups:

- 6141 Funeral Directors, Embalmers and Related Occupations
- 6143 Barbers, Hairdressers and Related Occupations
- 6144 Guides
- 6145 Hostesses and Stewards, Except Food and Beverage
- 6147 Babysitters
- 6149 Personal Service Occupations, n.e.c.

6141 - Funeral Directors, Embalmers and Related Occupations

This unit group includes occupations concerned with arranging funerals, cremations and burials; embalming human corpses; and performing other related duties.

6143 - Barbers, Hairdressers and Related Occupations

This unit group includes occupations concerned with cutting, shampooing, colouring and styling hair; cleaning, shaping and polishing fingernails; applying cosmetics; and rendering other beauty treatments to alter the appearance of individuals. Includes owners and managers of establishments providing above services on their own behalf, or in partnership as working proprietors, or managing these establishments on behalf of others. Make-up artists are in this unit group.

6144 - Guides

This unit group includes occupations concerned with escorting individuals and groups on sightseeing visits, travel tours and excursions; and describing

points of interest. Mountaineering, hunting and fishing guides are in Unit Group 3379 - OCCUPATIONS IN SPORT AND RECREATION, N.E.C.

6145 - Hostesses and Stewards, Except Food and Beverage

This unit group includes occupations concerned with providing personal services such as arranging for recreational activities, and attending to the comfort of passengers on board ships, airplanes, trains, busses and in hotels.

6147 - Babysitters

This unit group includes occupations concerned with caring for children in private residences during the temporary absence of parents or guardians.

6149 - Personal Service Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with providing other personal services such as housekeeping; attending to personal needs of employer; acting as companion; attending locker rooms; ushering; massaging; and performing other related duties.

616 - APPAREL AND FURNISHINGS SERVICE OCCUPATIONS

This minor group includes occupations, primarily found in service establishments, concerned with laundering and dry cleaning clothes; pressing cloth and other articles; and dyeing apparel and textile furnishings. Managers of chains of apparel and furnishings service establishments are in Unit Group 1142 - SERVICES MANAGEMENT OCCUPATIONS. APPAREL AND FURNISHINGS SERVICE OCCUPATIONS are classified in the following unit groups:

- 6160 Supervisors, Apparel and Furnishings Service Occupations
- 6162 Laundering and Dry Cleaning Occupations
- 6165 Pressing Occupations
- 6169 Apparel and Furnishings Service Occupations, n.e.c.

6160—Supervisors, Apparel and Furnishings Service Occupations

This unit group includes occupations, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), providing laundry, dry cleaning, pressing and related services on own or owners' behalf or in partnership; or with supervising and coordinating the activities of workers engaged in laundering, dry cleaning, pressing and other related activities. Managers of chains of apparel and furnishings service establishments are in Unit Group 1142—SERVICES MANAGEMENT OCCUPATIONS.

6162—Laundering and Dry Cleaning Occupations

This unit group includes occupations concerned with washing, drying and dry cleaning garments,

furs, hats, rugs and textile furnishings in commercial service establishments.

6165—Pressing Occupations

This unit group includes occupations concerned with machine or hand pressing of cloth and other articles by the application of tension or pressure using heat or steam.

6169—Apparel and Furnishings Service Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with activities such as sorting, ticketing, grading, laundering, mending and patching; dyeing rugs, shoes, apparel, and furnishings; blocking and trimming hats and performing other related services.

619—OTHER SERVICE OCCUPATIONS

This minor group includes other service occupations concerned with cleaning building interiors and equipment and performing minor repairs, tending heating apparatus, and operating elevators; operating cemeteries, exterminating services, and storage garages; washing and cleaning the interior and exterior of motor vehicles, aircraft and railroad cars; and performing other related services. Managers of chains of building cleaning establishments are in Unit Group 1142—SERVICES MANAGEMENT OCCUPATIONS. OTHER SERVICE OCCUPATIONS are classified in the following unit groups:

- 6190 Supervisors, Other Service Occupations**
- 6191 Janitors, Charworkers and Cleaners**
- 6193 Elevator Operating Occupations**
- 6198 Occupations in Labouring and Other Elemental Work, Services**
- 6199 Other Service Occupations, n.e.c.**

6190—Supervisors, Other Service Occupations

This unit group includes occupations, as described under the master titles MANAGING SUPERVISOR (any ind.) and SUPERVISOR/FOREMAN (any ind.), concerned with operating other service establishments on own or owners' behalf, or in partnership; or with supervising and coordinating the activities of workers engaged in maintenance of buildings; cleaning and washing the interior and exterior of motor vehicles, aircraft and railroad cars; and performing other related services. Managers of chains of building cleaning establishments are in Unit Group 1142—SERVICES MANAGEMENT OCCUPATIONS.

6191—Janitors, Charworkers and Cleaners

This unit group includes occupations concerned with cleaning building interiors, furnishings, and equipment; washing windows; performing minor painting, plumbing and carpentry duties; and firing and tending furnaces and boilers.

6193—Elevator Operating Occupations

This unit group includes occupations concerned with transporting passengers and freight between

floors in elevators, giving information and directions to passengers, and assisting passengers on and off cars.

6198—Occupations in Labouring and Other Elemental Work, Services

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), concerned with performing other service activities such as serving clients in checkrooms or shower rooms, shining shoes, washing dishes, cleaning vehicles and folding laundry.

6199—Other Service Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with providing other services such as performing underwater jobs; examining and fumigating buildings to destroy pests; operating crematoria; attending parking lots; taking admission tickets; and cleaning laboratory equipment.

MAJOR GROUP 71

FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS

This major group includes occupations concerned with growing and harvesting crops and plants; raising birds and animals; landscaping and maintaining parks, gardens and grounds; and providing agricultural services to farmers. These occupations are classified in the following minor groups:

- 711 Farmers**
- 713 Farm Management Occupations**
- 718/719 Other Farming, Horticultural and Animal Husbandry Occupations**

711 - FARMERS

This minor group includes occupations concerned with operating general farms on an ownership, rental or other contract basis to produce a variety of agricultural, horticultural and animal husbandry products or specialized farms to produce a particular type of product. Farmers frequently perform activities described in Minor Group 718/719 - OTHER FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS. FARMERS are classified in the following unit group:

- 7112 Farmers**

7112 - Farmers

This unit group includes occupations concerned with operating farms on an ownership, rental, or other contract basis to produce a variety of agricultural, horticultural and animal husbandry products or specialized farms to produce a particular type of product. Activities include: planning farm operations;

hiring, training and supervising workers; purchasing equipment and supplies; marketing of products; preparing cost, production and other records. Farmers frequently perform activities described in Minor Group 718/719 - OTHER FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS when operating farms.

713 - FARM MANAGEMENT OCCUPATIONS

This minor group includes occupations concerned with managing for an employer, farms or holdings on a paid basis. Farm managers occasionally perform activities described in Minor Group 718/719 - OTHER FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS. FARM MANAGEMENT OCCUPATIONS are classified in the following unit group:

- 7131 Farm Management Occupations**

7131 - Farm Management Occupations

This unit group includes occupations concerned with managing farms or holdings, for an employer, on a paid basis. Activities include: conferring with owners on the planning and sequence of farming

operations; hiring, training and supervising farm workers; ordering equipment and supplies; raising one or a combination of crops, poultry, and livestock; preparing produce for marketing; preparing and presenting cost, production and other records.

718/719 - OTHER FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with activities related to farming, horticulture and animal husbandry such as raising crops, horticultural plants, poultry and livestock; operating farm machinery; spraying crops and livestock to control insects, plant and animal diseases; preparing produce for marketing; providing agricultural services; maintaining public and private grounds, parks, cemeteries and sports fields; caring for animals, birds and marine life in research establishments, zoos, pet shops and aquariums. These occupations are classified in the following unit groups:

- 7180 Foremen: Other Farming, Horticultural and Animal Husbandry Occupations**
- 7182 Farm workers**

- 7195 Nursery and Related Workers**
- 7197 Farm Machinery Operators and Custom Operators**
- 7199 Other Farming, Horticultural and Animal Husbandry Occupations, n.e.c.**

7180—Foremen: Other Farming, Horticultural and Animal Husbandry Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities such as: planting, cultivating, spraying, irrigating and harvesting of crops; breeding, raising and caring for poultry and farm, domestic and fur-bearing animals; preparing produce for marketing; and maintaining parks, grounds and sports fields. These foremen occasionally perform the activities of the workers supervised.

7182—Farm Workers

This unit group includes occupations concerned with general or specialized farming. Activities include: planting, cultivating, spraying, irrigating and harvesting crops; pruning fruit trees, vines and shrubs; operating farm machinery; feeding, watering and caring for livestock, poultry and fur-bearing animals; cleaning stables, pens or enclosures of animals; shearing and docking sheep, dehorning and branding cattle; killing and skinning fur-bearing animals; milking cows; cleaning and sterilizing milking equipment; preparing farm crops and dairy products for marketing; growing crops to feed livestock; and maintaining farm structures.

7195—Nursery and Related Workers

This unit group includes occupations concerned with growing and primary marketing of trees, shrubs and ornamental plants and providing landscaping, groundskeeping and gardening services. Activities

include: preparing soil; planting seeds and bulbs; transplanting seedlings; planting, transplanting and pruning trees and shrubs; spraying to control insects and plant diseases; landscaping and maintaining public and private grounds, parks, cemeteries and sports fields.

7197—Farm Machinery Operators and Custom Operators

This unit group includes occupations concerned with operating farm machinery such as tractors, tractor-drawn and self-propelled equipment such as cultivators, potato diggers, threshing machines and combines. Activities include: making minor repairs to farm machinery and equipment and providing planting, cultivating, threshing and other farm equipment operating.

7199—Other Farming, Horticultural and Animal Husbandry Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with farming, horticulture and animal husbandry. Activities include: inspecting farms under contract to ensure compliance with contractual requirements; irrigating crops; pruning orchard, nursery and field crops; sorting, grading and packing eggs, orchard and field crop produce; harvesting Christmas trees; making maple syrup; caring for animals, birds and marine life in research establishments, zoos, pet shops and aquariums; providing agricultural services such as spraying, dusting and fumigating crops; disinfecting and shearing animals; chicken sexing and blood testing of fowl.

MAJOR GROUP 73

FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS

This major group includes occupations concerned with harvesting fish and other aquatic life from deep sea, coastal and inland waters; breeding fish; hunting whales and seals; and hunting and trapping wild animals or birds. These occupations are classified in the following minor group:

731 Fishing, Hunting, Trapping and Related Occupations

731 - FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with fishing in coastal, inland or deep sea waters using nets or lines; harvesting shellfish in open water or growing and harvesting them in shallow water; hunting and killing whales and seals; gathering seaweed; breeding fish in a hatchery; and hunting and trapping wild animals or birds. These occupations are classified in the following unit groups:

- 7311 Captains and Other Officers, Fishing Vessels**
- 7313 Fishermen: Net, Trap and Line**
- 7315 Hunting, Trapping and Related Occupations**
- 7319 Fishing, Hunting, Trapping and Related Occupations n.e.c.**

7311 - Captains and Other Officers, Fishing Vessels

This unit group includes occupations concerned with commanding the crew of a fishing vessel and with supervising and coordinating activities of workers engaged in harvesting fish and other aquatic life.

7313 - Fishermen: Net, Trap and Line

This unit group includes occupations concerned with catching fish using nets, hooks or spears and gathering shellfish using traps, pots, dredges or dragging apparatus.

7315 - Hunting, Trapping and Related Occupations

This unit group includes occupations concerned with hunting and trapping wild animals or birds for food, pelts, feathers or sale, or exterminating unwanted predators.

7319 - Fishing, Hunting, Trapping and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with hunting whales and seals, gathering seaweed, breeding and raising fish, repairing nets, and other fishing and related occupations.

MAJOR GROUP 75

FORESTRY AND LOGGING OCCUPATIONS

This major group includes occupations concerned with the development and conservation of forests, the felling of timber and cutting and removing of logs and other products from forests. These occupations are classified in the following minor group:

751 Forestry and Logging Occupations

751—FORESTRY AND LOGGING OCCUPATIONS

This minor group includes occupations concerned with developing, maintaining and protecting forests; cutting and evaluating timber; and moving logs from logging site to storage or transportation areas, including assembly of log booms on water. These occupations are classified in the following unit groups:

- 7510 Foremen, Forestry and Logging Occupations**
- 7511 Forestry Conservation Occupations**
- 7513 Timber Cutting and Related Occupations**
- 7516 Log Inspecting, Grading, Scaling and Related Occupations**
- 7517 Log Hoisting, Sorting, Moving and Related Occupations**
- 7518 Occupations in Labouring and Other Elemental Work, Forestry and Logging**
- 7519 Forestry and Logging Occupations, n.e.c.**

7510—Foremen, Forestry and Logging Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in developing, maintaining and protecting forests; felling and bucking trees; evaluating timber; and moving logs from logging site to storage or transportation areas.

7511—Forestry Conservation Occupations

This unit group includes occupations concerned with developing, maintaining and cultivating forested areas and woodlots, and protecting them from fire, disease and other hazards. Occupations requiring professional knowledge usually gained in universities and the technical occupations associated with them are in Unit Group 2131—AGRICULTURISTS AND RELATED SCIENTISTS, and Unit Group 2135—LIFE SCIENCES TECHNOLOGISTS AND TECHNICIANS, and those concerned with enforcing and advising on governmental regulations are in Unit Group 1116—INSPECTORS AND REGULATORY OFFICERS, GOVERNMENT.

7513—Timber Cutting and Related Occupations

This unit group includes occupations concerned with marking trees, clearing undergrowth and preparing a wooded area for logging operations, felling trees, removing limbs and bark, cutting felled trees into logs, and chipping and transporting slashings. Bush-clearing and road-making mobile equipment operators are in Unit Group 8711—EXCAVATING, GRADING AND RELATED OCCUPATIONS.

7516—Log Inspecting, Grading, Scaling and Related Occupations

This unit group includes occupations concerned with inspecting and grading logs and estimating their volume and marketable lumber content.

7517—Log Hoisting, Sorting, Moving and Related Occupations

This unit group includes occupations concerned with hoisting cut logs to trucks, skidways or other means of moving them from the site of operations; sorting logs at points of assembly; and forming log booms on water. Other hoisting occupations are in Unit Group 9311—HOISTING OCCUPATIONS, N.E.C.

7518—Occupations in Labouring and Other Elemental Work, Forestry and Logging

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with the development and conservation of forests, the felling of timber and cutting and removing of logs and other products from forests.

7519—Forestry and Logging Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with the development and conservation of forests, the felling of timber and cutting and removing of logs and other products from forests.

MAJOR GROUP 77

MINING AND QUARRYING INCLUDING OIL AND GAS FIELD OCCUPATIONS

This major group includes occupations concerned with extracting minerals and similar materials from underground or open pit mines and quarries, and drilling wells. These occupations are classified in the following minor group:

771 Mining and Quarrying Including Oil and Gas Field Occupations

771—MINING AND QUARRYING INCLUDING OIL AND GAS FIELD OCCUPATIONS

This minor group includes occupations concerned with extracting mineral ores, crude petroleum, natural gas, water, coal, salt and other minerals. Activities include drilling, blasting, cutting and loading. These occupations are classified in the following unit groups:

- 7710 Foremen, Mining and Quarrying Including
 Oil and Gas Field Occupations**
- 7711 Rotary Well-drilling and Related Occupa-
 tions**
- 7713 Other Rock and Soil-drilling Occupations**
- 7715 Blasting Occupations**
- 7717 Mining and Quarrying: Cutting, Handling
 and Loading Occupations**
- 7718 Occupations in Labouring and Other Ele-
 mental Work, Mining and Quarrying In-
 cluding Oil and Gas Fields**
- 7719 Mining and Quarrying Including Oil and Gas
 Field Occupations, n.e.c.**

7710—Foremen, Mining and Quarrying Including Oil and Gas Field Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in open pit and underground mining and quarrying; oil, gas and water well-drilling and servicing; and construction drilling and tunnelling projects.

7711—Rotary Well-drilling and Related Occupations

This unit group includes occupations concerned with sinking deep rotary drill holes into the earth to extract oil or gas. Activities include: operating drills to penetrate the earth; lowering and raising drill pipes, bits, instruments and casings; treating wells to increase production; and inspecting, testing and servicing wells to clean, reactivate or overcome difficulties related to them. Occupations related to oil exploration and production which normally require specialized training, and associated technicians, technologists and engineers, are in Unit Group 2165—ARCHITECTURAL AND ENGINEERING TECHNOLOGISTS AND TECHNICIANS, N.E.C. and Unit Group 2153—MINING ENGINEERS, and Unit Group 2154—PETROLEUM ENGINEERS.

7713—Other Rock and Soil-drilling Occupations

This unit group includes occupations concerned with operating a variety of drills to facilitate the use of explosives in underground or surface mining and in construction projects; to tap sub-surface water and salt deposits; to remove core samples during mineral exploration or for soil testing; and to break and separate rock.

7715—Blasting Occupations

This unit group includes occupations concerned with preparing, placing, and detonating explosives to loosen ore in mines; to explore for minerals, oil or gas; and in construction to loosen rocks or stumps or demolish structures to facilitate removal.

7717—Mining and Quarrying: Cutting, Handling and Loading Occupations

This unit group includes occupations concerned with operating machines that cut and remove minerals, waste or similar materials in underground and open pit mines or quarries; and loading materials on conveyances for removal to processing points or waste depositing locations; and related support

occupations. Mine railway equipment and dinky car operators are in Unit Group 9193 - MOTORMEN AND DINKEYMEN, EXCEPT RAIL TRANSPORT.

7718 - Occupations in Labouring and Other Elemental Work, Mining and Quarrying Including Oil and Gas Fields

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with extracting minerals

from underground or open pit mines and quarries, and drilling wells.

7719 - Mining and Quarrying Including Oil and Gas Field Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with underground construction work to provide support for mine roofs and walls; and with instituting and enforcing mine safety measures; conducting placer and dredge mining; dispatching oil well service crews; and assisting engineers in prospecting for oil.

MAJOR GROUP 81/82

PROCESSING OCCUPATIONS

This major group includes occupations concerned with refining, mixing, compounding, chemical treating, conditioning or similarly working materials such as ores, metals, clay, glass, stone, chemicals, petroleum, rubber, plastic, foods, beverages, paper, wood, textile fibres, hides, pelts and tobacco for direct use, or to produce semi-finished materials for further machining or fabricating, or to produce finished products such as bricks, tiles, processed food, newsprint, lumber, plywood and cloth. These occupations are classified in the following minor groups:

- 811 Mineral Ore Treating Occupations
- 813/814 Metal Processing and Related Occupations
- 815 Clay, Glass and Stone Processing, Forming and Related Occupations
- 816/817 Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations
- 821/822 Food, Beverage and Related Processing Occupations
- 823 Wood Processing Occupations, Except Pulp and Papermaking
- 825 Pulp and Papermaking and Related Occupations
- 826/827 Textile Processing Occupations
- 829 Other Processing Occupations

811 - MINERAL ORE TREATING OCCUPATIONS

This minor group includes occupations concerned with preparing crude mineral ores for direct use or further processing, either to finished metals or to any intermediate stage in refining, by such means as crushing, grinding, mixing, filtering or melting. These occupations are classified in the following unit groups:

- 8110 Foremen, Mineral Ore Treating Occupations
- 8111 Crushing and Grinding Occupations, Mineral Ores
- 8113 Mixing, Separating, Filtering and Related Occupations, Mineral Ores
- 8115 Melting and Roasting Occupations, Mineral Ores
- 8116 Inspecting, Testing, Grading and Sampling Occupations, Mineral Ore Treating
- 8118 Occupations in Labouring and Other Elemental Work, Mineral Ore Treating
- 8119 Mineral Ore Treating Occupations, n.e.c.

8110 - Foremen, Mineral Ore Treating Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in preparing crude mineral ores for direct use or further processing.

8111 - Crushing and Grinding Occupations, Mineral Ores

This unit group includes occupations concerned with reducing minerals and ores to a smaller state by compression, smashing, cutting, grinding or a combination of these methods.

8113 - Mixing, Separating, Filtering and Related Occupations, Mineral Ores

This unit group includes occupations concerned with combining mineral ores with solvents or amalgams to produce a single mass or compound; or setting apart desirable materials in ore or concentrate by such means as forcing or drawing it through filtering devices or screens by suction or pressure, sifting, straining, squeezing, centrifugal force, gravity, flotation, leaching, amalgamation, electrolysis, distillation, precipitation or by agitating devices.

8115 - Melting and Roasting Occupations, Mineral Ores

This unit group includes occupations concerned with heating mineral ores or concentrates to change them from a solid to liquid state for compounding with other materials, or roasting ores and concentrates to eliminate impurities or to change state.

8116 - Inspecting, Testing, Grading and Sampling Occupations, Mineral Ore Treating

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with the quality control activities in mineral ore treating.

8118 - Occupations in Labouring and Other Elemental Work, Mineral Ore Treating

This unit group includes occupations in labouring or elemental work, as described under LABOURER (any ind.), which are concerned with preparing crude mineral ores for direct use or further processing.

8119 - Mineral Ore Treating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with treating of mineral ores.

813/814 - METAL PROCESSING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with processing partially or fully refined metals to make semi-finished or finished metal stock and products by such means as melting, heat-treating, rolling, moulding, casting, drawing, extruding, plating and metal coating. These occupations are classified in the following unit groups:

8130	Foremen, Metal Processing and Related Occupations
8131	Metal Smelting, Converting and Refining Furnacemen
8133	Metal Heat-treating Occupations
8135	Metal Rolling Occupations
8137	Moulding, Coremaking and Metal Casting Occupations
8141	Metal Extruding and Drawing Occupations
8143	Plating, Metal Spraying and Related Occupations
8146	Inspecting, Testing, Grading and Sampling Occupations, Metal Processing
8148	Occupations in Labouring and Other Elemental Work, Metal Processing
8149	Metal Processing and Related Occupations, n.e.c.

8130 - Foremen, Metal Processing and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in processing metal to make semi-finished or finished metal stock and products.

8131 - Metal Smelting, Converting and Refining Furnacemen

This unit group includes occupations concerned with operating furnaces in the converting and refining of metal; melting of metals for casting; and in heating metal for rolling, forging and pressing as a stage in production of semi-finished or finished metal stock or products.

8133 - Metal Heat-treating Occupations

This unit group includes occupations concerned with altering the physical properties of metals or metal objects by heating, cooling or chemically treating to anneal, harden, temper or relieve internal stresses. This designation covers heat-treating occupations, wherever they occur, except when activities such as annealing, hardening or tempering are only incidental tasks.

8135 - Metal Rolling Occupations

This unit group includes occupations concerned with shaping, reducing the cross sectional area and elongating metal pieces by passing them between smooth-surfaced or circumferentially grooved rotating rolls which exert a continuous compressive force. Includes occupations concerned with rolling wire from billets and rods.

8137 - Moulding, Coremaking and Metal Casting Occupations

This unit group includes occupations concerned with moulding, coremaking and pouring or pressing molten or powdered metal into moulds to form metal ingots, castings or die-castings of various shapes and sizes.

8141 - Metal Extruding and Drawing Occupations

This unit group includes occupations concerned with drawing and extruding metal into primary shapes such as wire, pipe, tube, bar and various hollow or solid sections by use of dies and machines. Includes occupations concerned with applying insulation to wire or tube when it is an integral part of the primary shaping process.

8143 - Plating, Metal Spraying and Related Occupations

This unit group includes occupations concerned with treating the surface of metal stock, materials or products by such processes as electrolysis, dipping in molten metal, chemical baths, spraying, anodizing, bluing, tinning, plating, galvanizing or metalizing to apply decorative, protective or other coatings.

8146 - Inspecting, Testing, Grading and Sampling Occupations, Metal Processing

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with the quality control activities in metal processing.

8148 - Occupations in Labouring and Other Elemental Work, Metal Processing

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with processing partially or fully refined metals to make semi-finished or finished metal stock and products.

8149 - Metal Processing and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with metal processing. Activities include: covering electric wire and cable with protective or insulating material; flattening and straightening uneven surfaces on drawn or extruded metals; degassing molten steel; making solder; sandblasting metals to clean or impart even finish; making refractory plugs; and winding wire onto spools or other packages.

815 - CLAY, GLASS AND STONE PROCESSING, FORMING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with preparing raw materials such as clay, glass, stone and miscellaneous non-metallic minerals, abrasives and asbestos for use in a semi-finished or finished state, by means such as grinding, mixing, separating, melting, baking, drying, heating, impregnating, coating, glazing and forming or moulding materials into stock shapes, parts or products. Occupations concerned with grinding, polishing and finishing precious and semi-precious stones are in Unit Group 8591 - JEWELLERY AND SILVERWARE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS. CLAY, GLASS AND STONE PROCESSING, FORMING AND RELATED OCCUPATIONS are classified in the following unit groups:

8150 Foremen: Clay, Glass and Stone Processing, Forming and Related Occupations

- 8151 **Furnacemen and Kilnmen: Clay, Glass and Stone**
- 8153 **Separating, Grinding, Crushing and Mixing Occupations: Clay, Glass and Stone**
- 8155 **Forming Occupations: Clay, Glass and Stone**
- 8156 **Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Processing and Forming**
- 8158 **Occupations in Labouring and Other Elemental Work: Clay, Glass and Stone Processing and Forming**
- 8159 **Clay, Glass and Stone Processing, Forming and Related Occupations, n.e.c.**

8150—Foremen: Clay, Glass and Stone Processing, Forming and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in preparing raw materials such as clay, glass, stone and miscellaneous non-metallic minerals, abrasives and asbestos for use in semi-finished or finished state.

8151—Furnacemen and Kilnmen: Clay, Glass and Stone

This unit group includes occupations concerned with operating furnaces and kilns to affect physical composition and facilitate further processing of clay, glass, stone and related materials. Includes activities such as melting, glazing, firing or baking ingredients to produce glass, ceramics, bricks and tiles; and heating to dry materials, relieve internal stresses or affect hardness.

8153—Separating, Grinding, Crushing and Mixing Occupations: Clay, Glass and Stone

This unit group includes occupations concerned with separating clay, glass or stone materials by filtering, screening, squeezing, precipitating or agitating; reducing materials to smaller particles by compressing, cutting or smashing; and combining or mingling materials to produce a blended mass. Occupations concerned with mixing concrete and asphalt are in Unit Group 8799—OTHER CONSTRUCTION TRADES OCCUPATIONS, N.E.C.

8155—Forming Occupations, Clay, Glass and Stone

This unit group includes occupations concerned with shaping clay, glass and related materials by

pouring, injecting, blowing, bending, pressing, moulding or by such means as forcing, pulling or drawing it through dies or rollers. Includes occupations concerned with baking, drying and cooling of formed materials when these activities are part of the forming process.

8156—Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Processing and Forming

This unit group includes occupations, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in clay, glass and stone processing and forming.

8158—Occupations in Labouring and Other Elemental Work: Clay, Glass and Stone Processing and Forming

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with preparing new materials such as clay, glass, stone and miscellaneous non-metallic minerals, abrasives and asbestos for use in semi-finished or finished state.

8159—Clay, Glass and Stone Processing, Forming and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with processing and forming raw materials such as clay, glass, stone, abrasives, asbestos and other non-metallic minerals.

816/817 - CHEMICALS, PETROLEUM, RUBBER, PLASTIC AND RELATED MATERIALS PROCESSING OCCUPATIONS

This minor group includes occupations concerned with refining, processing or preparing chemicals, petroleum, coal, rubber, plastic and related materials for subsequent use by means such as mixing, separating, distilling, subliming, carbonizing, heat treating, crushing, calendering and coating. These occupations are classified in the following unit groups:

- 8160 Foremen: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations**
- 8161 Mixing and Blending Occupations, Chemicals and Related Materials**
- 8163 Filtering, Straining and Separating Occupations, Chemicals and Related Materials**
- 8165 Distilling, Subliming and Carbonizing Occupations, Chemicals and Related Materials**
- 8167 Roasting, Cooking and Drying Occupations, Chemicals and Related Materials**
- 8171 Crushing and Grinding Occupations, Chemicals and Related Materials**
- 8173 Coating and Calendering Occupations, Chemicals and Related Materials**
- 8176 Inspecting, Testing, Grading and Sampling Occupations: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing**
- 8178 Occupations in Labouring and Other Elemental Work: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing**
- 8179 Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations, n.e.c.**

8160 - Foremen: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in refining, processing and preparing petroleum, chemicals, rubber, plastic and related materials for subsequent use.

8161 - Mixing and Blending Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with combining and mingling chemicals and related materials to produce a single mass or compound or to achieve quality, texture, colour or similar characteristics.

8163 - Filtering, Straining and Separating Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with separating chemicals or related materials by means of filtering, straining, sifting, squeezing, centrifugal force or agitating devices.

8165 - Distilling, Subliming and Carbonizing Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with heating mixtures to vapourize and separate volatile substances; cooling and condensing to produce refined substances; liquefying and distilling natural, manufactured or industrial gases; and removing or obtaining gases, condensations or residues in stills, ovens or retorts. Occupations concerned with processing alcohols for human consumption are in Unit Group 8227 - BEVERAGE PROCESSING OCCUPATIONS.

8167 - Roasting, Cooking and Drying Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with subjecting chemicals and related materials to heat, air, vacuum or dessicants to melt, dry, char, purify, concentrate, liquefy or change chemical composition.

8171 - Crushing and Grinding Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with reducing chemicals and related materials to smaller particles by any combination of compression, smashing or cutting.

8173 - Coating and Calendering Occupations, Chemicals and Related Materials

This unit group includes occupations concerned with imparting a desired surface finish or insuring uniform thickness in materials such as plastic, synthetic or rubber stock by applying pressure with rollers; forming or pressing materials into thin sheets or layers and then adding them to other materials; and covering materials with a layer of another material for such purpose as preserving or decorating.

8176 - Inspecting, Testing, Grading and Sampling Occupations: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in chemicals, petroleum, rubber, plastic and related materials processing. Occupations concerned with inspecting both food and drugs are in Unit Group 8296 - INSPECTING, TESTING, GRADING AND SAMPLING OCCUPATIONS, PROCESSING, N.E.C.

8178 - Occupations in Labouring and Other Elemental Work: Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with refining, processing, and preparing petroleum, chemicals, rubber, plastic and related materials for subsequent use.

8179 - Chemicals, Petroleum, Rubber, Plastic and Related Materials Processing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with processing chemicals, petroleum, coal, rubber, plastic and related materials.

821/822 - FOOD, BEVERAGE AND RELATED PROCESSING OCCUPATIONS

This minor group includes occupations concerned with preparing food and related products for human or animal consumption. Includes all processing phases after harvesting and prior to marketing, such as flour and grain milling and baking; slaughtering and meat cutting; meat and fish canning, curing and packing; fruit and vegetable preserving; milk, sugar and beverage processing; preparation of pre-cooked foods, meals or ingredients; and marking and packaging when it is part of the production process. These occupations are classified in the following unit groups:

8210	Foremen: Food, Beverage and Related Processing Occupations
8211	Flour and Grain Milling Occupations
8213	Baking, Confectionery Making and Related Occupations
8215	Slaughtering and Meat Cutting, Canning, Curing and Packing Occupations
8217	Fish Canning, Curing and Packing Occupations
8221	Fruit and Vegetable Canning, Preserving and Packing Occupations
8223	Milk Processing Occupations
8225	Sugar Processing and Related Occupations
8226	Inspecting, Testing, Grading and Sampling Occupations: Food, Beverage and Related Processing
8227	Beverage Processing Occupations

**8228 Occupations in Labouring and Other
Elemental Work: Food, Beverage and Re-
lated Processing**

**8229 Food, Beverage and Related Processing
Occupations, n.e.c.**

**8210 - Foremen: Food, Beverage and Related Pro-
cessing Occupations**

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in preparing food and related products for commercial or domestic use.

8211 - Flour and Grain Milling Occupations

This unit group includes occupations concerned with cleaning, crushing, grinding, blending and otherwise mechanically processing grains and related foodstuffs.

**8213 - Baking, Confectionery Making and Related
Occupations**

This unit group includes occupations concerned with making food and products such as bread, pastries, macaroni, cooked cereals, chocolate and cocoa confectionery products, candies, salted and roasted nuts, chewing gum and popcorn. Includes activities such as mixing, kneading, blending, rolling, shaping, drying, cooking, baking, roasting, coating and decorating. Chefs and cooks are in Unit Group 6121 - CHEFS AND COOKS.

**8215 - Slaughtering and Meat Cutting, Canning, Cur-
ing and Packing Occupations**

This unit group includes occupations concerned with slaughtering animals and poultry; preparing, preserving and packing meats; and processing edible and inedible by-products for food or other uses. Activities include: skinning, cutting, boning, cooking, curing, smoking, dehydrating, canning and freezing meat products.

**8217 - Fish Canning, Curing and Packing Occu-
pations**

This unit group includes occupations concerned with preparing, preserving and packing fish and shellfish for use as food and by-products, such as oil and meal. Includes cleaning, peeling, shucking, cutting, grinding, salting, smoking, dehydrating, freezing, cooking, canning and related activities.

**8221 - Fruit and Vegetable Canning, Preserving and
Packing Occupations**

This unit group includes occupations concerned with canning and preserving fruit and vegetables by such methods as cooking, freezing and dehydrating.

8223 - Milk Processing Occupations

This unit group includes occupations concerned with pasteurizing milk and processing milk and

cream to make butter, cheese, ice-cream and other dairy products.

8225 - Sugar Processing and Related Occupations

This unit group includes occupations concerned with extracting, refining and processing sugar, molasses and sugar by-products from materials such as raw cane sugar, sugar beets and corn. Includes activities such as operating diffusers, mixers, filters, evaporators, driers, presses and screening devices. Occupations concerned with processing maple sugar products are in Minor Group 718/719 - OTHER FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPATIONS.

**8226 - Inspecting, Testing, Grading and Sampling
Occupations: Food, Beverage and Related
Processing**

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in food, beverage, and related processing. Occupations concerned with inspecting both food and drugs are in Unit Group 8296 - INSPECTING, TESTING, GRADING AND SAMPLING OCCUPATIONS, PROCESSING, N.E.C.

8227 - Beverage Processing Occupations

This unit group includes occupations concerned with processing beverage products such as tea, coffee, cocoa, soft drinks, fruit juices, wine and liquor. Activities include: pressing, blending, malting and fermenting grains and fruits. Milk processing occupations are in Unit Group 8223 - MILK PROCESSING OCCUPATIONS and chocolate and cocoa confectionery processing occupations are in Unit Group 8213 - BAKING, CONFECTIONERY MAKING AND RELATED OCCUPATIONS.

**8228 - Occupations in Labouring and Other Elemental
Work: Food, Beverage and Related Pro-
cessing**

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with preparing food and related products for commercial or domestic use.

**8229 - Food, Beverage and Related Processing
Occupations, n.e.c.**

This unit group includes occupations, not elsewhere classified, concerned with food and beverage processing.

823 - WOOD PROCESSING OCCUPATIONS, EXCEPT PULP AND PAPERMAKING

This minor group includes occupations concerned with sawing and preparing lumber and related material for use; manufacturing plywood and wood conglomerates; inspecting, grading and scaling lumber; and treating wood with preservatives and fire-retardants. These occupations are classified in the following unit groups:

- 8230 Foremen: Wood Processing Occupations, Except Pulp and Papermaking**
- 8231 Sawmill Sawyers and Related Occupations**
- 8233 Plywood Making and Related Occupations**
- 8235 Wood Treating Occupations**
- 8236 Inspecting, Testing, Grading and Sampling Occupations: Wood Processing, Except Pulp and Papermaking**
- 8238 Occupations in Labouring and Other Elemental Work: Wood Processing, Except Pulp and Papermaking**
- 8239 Wood Processing Occupations, Except Pulp and Papermaking, n.e.c.**

8230 - Foremen: Wood Processing Occupations, Except Pulp and Papermaking

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in sawing and preparing lumber and related materials for use; manufacturing plywood and producing wood conglomerates; inspecting, grading and scaling lumber; and treating wood with preservatives and fire-retardants.

8231 - Sawmill Sawyers and Related Occupations

This unit group includes occupations concerned with operating saws in a mill to produce lumber of various dimensions or lengths.

8233 - Plywood Making and Related Occupations

This unit group includes occupations concerned with peeling, slicing, gluing, pressing and trimming veneer sheets, and preparing core board and face sheets to produce veneer plywood panels of various thicknesses and dimensions.

8235 - Wood Treating Occupations

This unit group includes occupations concerned with removing moisture, incising and treating wood with materials such as preservatives and fire-

retardants, and producing wood conglomerates such as chip, particle or hardboard.

8236 - Inspecting, Testing, Grading and Sampling Occupations: Wood Processing, Except Pulp and Papermaking

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in wood processing, except pulp and papermaking.

8238 - Occupations in Labouring and Other Elemental Work: Wood Processing, Except Pulp and Papermaking

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with sawing and preparing lumber and related materials for use; manufacturing plywood and wood conglomerates; and treating wood with preservatives and fire-retardants.

8239 - Wood Processing Occupations, Except Pulp and Papermaking, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with processing wood, except pulp and papermaking.

825 - PULP AND PAPERMAKING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with converting cellulose materials into paper pulp and making and finishing paper. These occupations are classified in the following unit groups:

- 8250 Foremen, Pulp and Papermaking and Related Occupations**
- 8251 Cellulose Pulp Preparing Occupations**

- 8253 Papermaking and Finishing Occupations
- 8256 Inspecting, Testing, Grading and Sampling
 Occupations, Pulp and Papermaking
- 8258 Occupations in Labouring and Other Ele-
 mental Work, Pulp and Papermaking
- 8259 Pulp and Papermaking and Related Occu-
 pations, n.e.c.

8250 - Foremen, Pulp and Papermaking and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in converting cellulose materials into paper pulp, and making and finishing paper.

8251 - Cellulose Pulp Preparing Occupations

This unit group includes occupations primarily concerned with operating and tending equipment that reduces logs, rags, scrap pulp and similar cellulose materials to pulp slurry. Activities include: grinding, shredding, mixing, screening, cleaning, cooking and bleaching of pulp material.

8253 - Papermaking and Finishing Occupations

This unit group includes occupations primarily concerned with operating and tending equipment that makes paper, paper pulp and paperboard from pulp slurry, and imparts gloss and finish to paper. Activities include: forming sheets of wet pulp, drying, pressing, calendering, winding, cutting, glazing and impregnating paper with coating mixtures, and laminating paper with other materials.

8256 - Inspecting, Testing, Grading and Sampling Occupations, Pulp and Papermaking

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in pulp and papermaking.

8258 - Occupations in Labouring and Other Elemental Work, Pulp and Papermaking

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with feeding conveyors and hoppers, cutting wet pulp, washing screens, collecting broke, sorting rags and performing general clean-up duties.

8259 - Pulp and Papermaking and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with making pulp and paper.

826/827 - TEXTILE PROCESSING OCCUPATIONS

This minor group includes occupations concerned with processing textile fibres into yarn or thread and weaving, knitting and finishing fabrics. Includes activities such as preparing fibres for processing; spinning and twisting; winding and reeling strands of yarn, thread or cloth; weaving materials; knitting fabrics or garments; bleaching, dyeing and finishing textiles; and preparing or fixing looms and knitting machines. Occupations concerned with processing pelts are in Minor Group 829 - OTHER PROCESSING OCCUPATIONS. Occupations concerned with printing designs or patterns on textiles are in Minor Group 951 - PRINTING AND RELATED OCCUPATIONS. TEXTILE PROCESSING OCCUPATIONS are classified in the following groups:

- 8260 Foremen, Textile Processing Occupations
- 8261 Textile Fibre Preparing Occupations
- 8263 Textile Spinning and Twisting Occupations
- 8265 Textile Winding and Reeling Occupations
- 8267 Textile Weaving Occupations
- 8271 Knitting Occupations
- 8273 Textile Bleaching and Dyeing Occupations
- 8275 Textile Finishing and Calendering Occu-
 pations
- 8276 Inspecting, Testing, Grading and Sampling
 Occupations, Textile Processing

8278 Occupations in Labouring and Other Elemental Work, Textile Processing

8279 Textile Processing Occupations, n.e.c.

8260 – Foremen, Textile Processing Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in processing textile fibres into yarn or thread and weaving, knitting and finishing fabrics.

8261 – Textile Fibre Preparing Occupations

This unit group includes occupations concerned with preparing wool, cotton, flax, jute, hemp and other fibres for spinning and winding. Activities include: grading, classifying, washing, mixing, blending, picking, carding, lapping, combing and drawing fibres into strands.

8263 – Textile Spinning and Twisting Occupations

This unit group includes occupations concerned with twisting together short fibres to produce a continuous length of thread or twisting together yarn, thread, twine or cordage to impart such characteristics as strength, texture and resistance.

8265 – Textile Winding and Reeling Occupations

This unit group includes occupations concerned with winding and reeling yarn, thread, cloth and narrow fabrics onto beams, spools, cards or other devices or gathering yarn into balls, bulks or skeins.

8267 – Textile Weaving Occupations

This unit group includes occupations concerned with interlacing two sets of yarn or thread to produce fabric. Activities include preparing and fixing looms and associated machines.

8271 – Knitting Occupations

This unit group includes occupations concerned with interlacing a strand of yarn or thread in a series of connected loops to make knitted fabric or

products such as hosiery, sweaters, lace and garments.

8273 – Textile Bleaching and Dyeing Occupations

This unit group includes occupations concerned with washing, bleaching or dyeing textile products such as yarn, thread or cloth to impart colour definition. Dyeing occupations concerned with changing colour of wearing apparel and textile furnishings are in Minor Group 616 – APPAREL AND FURNISHINGS SERVICE OCCUPATIONS.

8275 – Textile Finishing and Calendering Occupations

This unit group includes occupations concerned with finishing textiles. Activities include: calendering, fulling, shrinking, stretching, strengthening, drying and waterproofing textile goods. Occupations concerned with pressing garments and textiles are in Unit Group 6165 – PRESSING OCCUPATIONS.

8276 – Inspecting, Testing, Grading and Sampling Occupations, Textile Processing

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in textile processing.

8278 – Occupations in Labouring and Other Elemental Work, Textile Processing

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with processing textile fibres into yarn or thread and weaving, knitting and finishing fabrics.

8279 – Textile Processing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with processing textiles.

829 – OTHER PROCESSING OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with processing materials and products. These occupations are classified in the following unit groups:

8290 Foremen, Other Processing Occupations

8293 Tobacco Processing Occupations

8295 Hide and Pelt Processing Occupations

8296 Inspecting, Testing, Grading and Sampling Occupations, Processing, n.e.c.

- 8298 Occupations in Labouring and Other Elemental Work, Other Processing**
- 8299 Other Processing Occupations, n.e.c.**

8290 – Foremen, Other Processing Occupations

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in processing materials and products.

8293 – Tobacco Processing Occupations

This unit group includes occupations concerned with preparing and treating tobacco, and with making cigars, cigarettes and other tobacco products. Occupations concerned with kiln-drying tobacco leaves are in Unit Group 7182 – FARM WORKERS.

8295 – Hide and Pelt Processing Occupations

This unit group includes occupations concerned with preparing hides, pelts and skins to make leather stock and finished furs. Activities include: trimming, scraping, scouring, tanning, staining and dyeing.

8296 – Inspecting, Testing, Grading and Sampling Occupations, Processing, n.e.c.

This unit group includes occupations, not elsewhere classified, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER, and SAMPLER, concerned with quality control activities in the processing of other materials such as tobacco, hides and pelts. Occupations concerned with inspecting both food and drugs are in this unit group.

8298 – Occupations in Labouring and Other Elemental Work, Other Processing

This unit group includes occupations, not elsewhere classified, in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with processing materials and products.

8299 – Other Processing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with processing materials and products.

MAJOR GROUP 83

MACHINING AND RELATED OCCUPATIONS

This major group includes occupations concerned with using machines and handtools to shape or work such materials as metal, plastic, wood, glass or stone by cutting, boring, milling, abrading, planing, punching, pressing, rolling, engraving, welding or similar means. These occupations are classified in the following minor groups:

- 831 Metal Machining Occupations**
- 833 Metal Shaping and Forming Occupations,
 Except Machining**
- 835 Wood Machining Occupations**
- 837 Clay, Glass and Stone and Related Mater-
 ials Machining Occupations**
- 839 Other Machining and Related Occupations**

831 - METAL MACHINING OCCUPATIONS

This minor group includes occupations primarily concerned with shaping metal into parts or products of specified dimensions, by such means as turning, boring, milling, abrading or planing. Activities include: measuring, laying out and setting up work; operating machine tools; and repairing, fitting and assembling parts. The machining of plastics or similar materials is also included when methods applied to machining of metal are used. These occupations are classified in the following unit groups:

- 8310 Foremen, Metal Machining Occupations**
- 8311 Tool and Die Making Occupations**
- 8313 Machinist and Machine Tool Setting-up
 Occupations**
- 8315 Machine Tool Operating Occupations**
- 8316 Inspecting, Testing, Grading and Sampling
 Occupations, Metal Machining**
- 8319 Metal Machining Occupations, n.e.c.**

8310 - Foremen, Metal Machining Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in shaping metal into parts or products by machining.

8311 - Tool and Die Making Occupations

This unit group includes occupations concerned with the making and repairing of such items as metalworking dies, cutting tools, jigs, fixtures and gauges by measuring to close tolerances, laying out, setting up workpieces and machines, operating machine tools, fitting, heat treating and assembling parts.

8313 - Machinist and Machine Tool Setting-up Occupations

This unit group includes occupations concerned with setting up and operating various machine tools to shape metal into parts or products of specified dimensions. Activities include measuring, boring,

milling, turning, sawing, precision grinding and planing; laying out and setting up workpieces; making mathematical computations; reading mechanical drawings and finishing work to specifications; associated fitting, assembling and repairing of metal parts; setting up machine tools for less skilled operators to perform repetitive work and and testing to check sample of first-run workpiece; and machining of other materials when methods applied to metal machining are used. Machine tool operators are in Unit Group 8315 - MACHINE TOOL OPERATING OCCUPATIONS.

8315 - Machine Tool Operating Occupations

This unit group includes occupations concerned with operating metal-cutting machines which have usually been set up for repetitive type work. Workers in these occupations operate one or more machines to perform machining operations such as milling, drilling, planing, shaping, turning, boring, sawing, precision grinding, honing and broaching, to produce finished or semi-finished parts or to repair parts. Some machine tool operators adjust their own machines.

8316 - Inspecting, Testing, Grading and Sampling Occupations, Metal Machining

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in metal machining.

8319 - Metal Machining Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with metal machining.

833 - METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING

This minor group includes occupations, concerned with shaping and forming metal parts or products to specified dimensions by forging, pressing, cutting, rolling, bending, punching and shearing, and joining by welding, brazing and soldering. Activities include: measuring, laying out and setting up work and machines; and associated fitting and repairing. These occupations are classified in the following unit groups:

- 8330 Foremen, Metal Shaping and Forming Occupations, Except Machining**
- 8331 Forging Occupations**
- 8333 Sheet Metal Workers**
- 8334 Metalworking-machine Operators, n.e.c.**
- 8335 Welding and Flame Cutting Occupations**
- 8336 Inspecting, Testing, Grading and Sampling Occupations: Metal Shaping and Forming, Except Machining**
- 8337 Boilermakers, Platers and Structural Metal Workers**
- 8339 Metal Shaping and Forming Occupations, Except Machining, n.e.c.**

8330 - Foremen, Metal Shaping and Forming Occupations, Except Machining

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in shaping and forming metal parts and products by forging, cutting, rolling, pressing, bending, punching, shearing and welding.

8331 - Forging Occupations

This unit group includes occupations concerned with hammering, pressing, swaging, and drop forging metal into desired shapes, with or without benefit of heat.

8333 - Sheet Metal Workers

This unit group includes occupations concerned with making sheet metal parts or products, such as gutters, airducts, cabinets, tinware and metal furniture. Includes occupations concerned with making and repairing sheet metal components used in manufacture of transport, industrial, domestic and other equipment. Activities include: draughting patterns, measuring and laying out templates; and cutting, shaping, bending, soldering, brazing, riveting, and crimping sheet copper, steel, aluminum, galvanized iron, tinplate or other sheet metal stock,

using metal forming handtools and such machines as brakes, shears and rollers. Metal pressing, punching and shearing occupations, using power-operated machines, are in Unit Group 8334 - METAL WORKING-MACHINE OPERATORS, N.E.C.

8334 - Metalworking-machine Operators, n.e.c.

This unit group includes occupations concerned with operating power-operated machines to produce metal parts or products by pressing, bending, punching, cutting and shearing with the application of machine pressure.

8335 - Welding and Flame Cutting Occupations

This unit group includes occupations concerned with joining, surfacing, cutting, or otherwise fabricating and repairing ferrous and non-ferrous metal parts and structures, using welding and cutting equipment. Includes activities such as setting up and operating equipment; welding using oxy-acetylene, electric arc, metal inert gas or tungsten inert gas equipment; brazing using oxy-acetylene equipment; soldering using oxy-acetylene or gas blow torch, soldering iron or electric soldering gun; lead burning; cutting or perforating using oxy-acetylene cutting torch or electric arc cutting equipment.

8336 - Inspecting, Testing, Grading and Sampling Occupations: Metal Shaping and Forming, Except Machining

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in metal shaping and forming, except machining.

8337 - Boilermakers, Platers and Structural Metal Workers

This unit group includes occupations concerned with assembling, erecting and repairing of boilers

and fabricating parts to specifications for boilers, tanks, ships and other structures made from steel plates, tubes, beams, castings and similar materials. Activities include: laying out, cutting, bending, rolling, fitting, drilling, punching, reaming, bolting and welding.

8339 - Metal Shaping and Forming Occupations, Except Machining, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with shaping and forming metal, except machining.

835 - WOOD MACHINING OCCUPATIONS

This minor group includes occupations concerned with shaping wood into parts or products by machining to specified dimensions by such means as sawing, cutting, boring, sanding, milling and planing. Activities include: measuring, laying out and setting up work and machines, and machining cork, wood by-products and other materials when the methods applied to machining wood are used. These occupations are classified in the following unit groups:

8350	Foremen, Wood Machining Occupations
8351	Wood Patternmaking Occupations
8353	Wood Sawing and Related Occupations, Except Sawmill
8355	Planing, Turning, Shaping and Related Wood Machining Occupations
8356	Inspecting, Testing, Grading and Sampling Occupations, Wood Machining
8357	Wood Sanding Occupations
8359	Wood Machining Occupations, n.e.c.

8350 - Foremen, Wood Machining Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in shaping wood into parts or products by machining.

8351 - Wood Patternmaking Occupations

This unit group includes occupations concerned with making wood patterns for use as moulding patterns. Activities include: following blue prints or samples to achieve specified shape and dimensions, and planing, turning, gluing, nailing, sanding and painting, using a variety of handtools and wood-working machines. Other patternmakers are in Unit Group 8395 - PATTERNMAKERS AND MOULD-MAKERS, N.E.C. or 8551 - PATTERNMAKING, MARKING AND CUTTING OCCUPATIONS: TEXTILE, FUR AND LEATHER PRODUCTS.

8353 - Wood Sawing and Related Occupations, Except Sawmill

This unit group includes occupations concerned with cutting wood and other materials, when wood

cutting methods are used, to various widths, lengths or shapes using power-operated knife, circular, band and reciprocating type saws. SAWMILL SAWYERS AND RELATED OCCUPATIONS are in Unit Group 8231.

8355 - Planing, Turning, Shaping and Related Wood Machining Occupations

This unit group includes occupations concerned with making wooden parts or products by such means as planing, turning, shaping, routing, boring, morticing and drilling wood stock to desired shape and size. Activities include: setting up and operating woodworking machines, measuring and laying out work.

8356 - Inspecting, Testing, Grading and Sampling Occupations, Wood Machining

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in wood machining.

8357 - Wood Sanding Occupations

This unit group includes occupations concerned with smoothing, cleaning and roughing wood surfaces using sandpaper or similar abrasives.

8359 - Wood Machining Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with machining wood.

837 - CLAY, GLASS AND STONE AND RELATED MATERIALS MACHINING OCCUPATIONS

This minor group includes occupations concerned with shaping clay, glass and stone into parts or products by machining to specified dimensions by such means as cutting, boring, abrading, milling and planing. Activities include: measuring, laying out, setting up work and machines, and machining related materials, when methods applied to machining of clay, glass and stone are employed. These occupations are classified in the following unit groups:

- 8370 Foremen: Clay, Glass and Stone and Related Materials Machining Occupations
- 8371 Cutting and Shaping Occupations: Clay, Glass and Stone
- 8373 Abrading and Polishing Occupations: Clay, Glass and Stone, n.e.c.
- 8376 Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Machining
- 8379 Clay, Glass and Stone and Related Materials Machining Occupations, n.e.c.

8370 - Foremen: Clay, Glass and Stone and Related Materials Machining Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in shaping clay, glass and stone into parts or products by machining.

8371 - Cutting and Shaping Occupations: Clay, Glass and Stone

This unit group includes occupations concerned with cutting and shaping clay, glass and stone materials using hand or power saws; reducing stock to desired size, shape and finish by such means as turning on a lathe, planing or drilling.

8373 - Abrading and Polishing Occupations: Clay, Glass and Stone, n.e.c.

This unit group includes occupations concerned with smoothing and polishing clay, glass and stone and related materials, using abrasives and plane or

rotary action machines. Includes grinding, polishing and coating lenses, reflectors, filters and prisms used in optical instruments. Occupations primarily concerned with edging, grinding and polishing of eye-glass and contact lenses are included in this unit group. Dispensing opticians are in Unit Group 3154 - DISPENSING OPTICIANS.

8376 - Inspecting, Testing, Grading and Sampling Occupations: Clay, Glass and Stone Machining

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in clay, glass and stone machining.

8379 - Clay, Glass and Stone and Related Materials Machining Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with machining clay, glass and stone.

839 - OTHER MACHINING AND RELATED OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with using machines or hand-tools to shape or work various materials and products to specified dimensions by such means as engraving, etching, filing, grinding, buffing, cleaning and polishing; patternmaking and mouldmaking; and inspecting and testing materials and products. These occupations are classified in the following unit groups:

- 8390 Foremen: Other Machining and Related Occupations, n.e.c.

- 8391 Engravers, Etchers and Related Occupations**
- 8393 Filing, Grinding, Buffing, Cleaning and Polishing Occupations, n.e.c.**
- 8395 Patternmakers and Mouldmakers, n.e.c.**
- 8396 Inspecting, Testing, Grading and Sampling Occupations, Machining, n.e.c.**
- 8399 Other Machining and Related Occupations, n.e.c.**

8390—Foremen, Other Machining and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in using machines or handtools to shape or work various materials into products.

8391—Engravers, Etchers and Related Occupations

This unit group includes occupations concerned with engraving or etching standard designs or lettering on glass, metals, plastic and a variety of other materials for large scale production, using engraver's handtools, machines and etching acids. Photoengravers and printing plate engravers are in Unit Group 9515—PHOTOENGRAVERS AND RELATED OCCUPATIONS. Artistic engravers and etchers are in Unit Group 3311—PAINTERS, SCULPTORS AND RELATED ARTISTS.

8393—Filing, Grinding, Buffing, Cleaning and Polishing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with filing, grinding, buffing, cleaning and polishing parts or objects.

8395—Patternmakers and Mouldmakers, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with making samples,

templates or moulds out of metal, wood, clay, plastic, plaster or similar materials to be used in fabrication of a variety of parts, structures or objects, such as metal springs, jewellery, structural parts and furniture; brick, tile, pottery and concrete products; plaster ashtrays, plaques, figurines and statuary; and plastic and rubber products. WOOD PATTERNMAKING OCCUPATIONS are in Unit Group 8351. PATTERNMAKING, MARKING AND CUTTING OCCUPATIONS: TEXTILE, FUR AND LEATHER PRODUCTS are in Unit Group 8551.

8396—Inspecting, Testing, Grading and Sampling Occupations, Machining, n.e.c.

This unit group includes occupations, not elsewhere classified, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the machining, engraving, etching, filing, grinding, buffing, cleaning and polishing, patternmaking and mouldmaking, of various other materials and products. Also includes occupations as described under the above term titles whose activities relate to more than one minor group within this major group.

8399—Other Machining and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with machining.

MAJOR GROUP 85

PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

This major group includes occupations concerned with using manufactured components and assemblies to produce or repair products such as automobiles, airplanes, and marine craft; industrial and agricultural machinery; commercial and business machines; domestic appliances; precision instruments; electrical and electronic equipment; rubber and plastic products; garments; footwear; furniture and housewares by assembling them on a production line in a factory or in a shop or yard. Activities include: final working, fitting and finishing of parts and assemblies to complete fabrication, installation and repair of finished products or equipment. Occupations primarily concerned with inspecting, testing, grading and sampling activities related to the fabrication, assembly, installation and repair of products are classified in special unit groups for inspecting, testing, grading and sampling. Occupations concerned with assembling and repairing marine craft are in Unit Group 8592 - MARINE CRAFT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS. PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS are classified in the following minor groups:

- 851/852 Fabricating and Assembling Occupations, Metal Products, n.e.c.**
- 853 Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment**
- 854 Fabricating, Assembling and Repairing Occupations, Wood Products**
- 855/856 Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products**
- 857 Fabricating, Assembling and Repairing Occupations: Rubber, Plastic and Related Products**
- 858 Mechanics and Repairmen, Except Electrical**
- 859 Other Product Fabricating, Assembling and Repairing Occupations**

851/852 - FABRICATING AND ASSEMBLING OCCUPATIONS, METAL PRODUCTS, N.E.C.

This minor group includes occupations, not elsewhere classified, concerned with fabricating and assembling a wide variety of products, primarily made of metal, and mechanical equipment designed for use in domestic, commercial, industrial, construction, agricultural or other activities. Includes occupations, not elsewhere classified, concerned with fabricating and assembling motor vehicles; aircraft; rail rolling stock; engines and related equipment; industrial, farm and construction machinery; business and commercial machines; precision instruments; armament equipment; and other related products. Occupations concerned with fabricating, assembling and repairing marine craft are in Unit Group 8592 - MARINE CRAFT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS. These occupations are classified in the following unit groups:

- 8510 Foremen: Fabricating and Assembling Occupations, Metal Products, n.e.c.**
- 8511 Engine and Related Equipment Fabricating and Assembling Occupations, n.e.c.**
- 8513 Motor Vehicle Fabricating and Assembling Occupations, n.e.c.**
- 8515 Aircraft Fabricating and Assembling Occupations, n.e.c.**
- 8523 Industrial, Farm, Construction and Other Mechanized Equipment and Machinery Fabricating and Assembling Occupations, n.e.c.**
- 8525 Business and Commercial Machines Fabricating and Assembling Occupations, n.e.c.**

- 8526 Inspecting, Testing, Grading and Sampling Occupations, Fabricating and Assembling Metal Products, n.e.c.
- 8527 Precision Instruments and Related Equipment Fabricating and Assembling Occupations, n.e.c.
- 8528 Occupations in Labouring and Other Elemental Work, Fabricating and Assembling Metal Products, n.e.c.
- 8529 Other Fabricating and Assembling Occupations, Metal Products, n.e.c.

8510—Foremen, Fabricating and Assembling Occupations, Metal Products, n.e.c.

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating and assembling a wide variety of metal products and mechanical equipment designed for general use in domestic, commercial, industrial, construction, agricultural or other activities.

8511—Engine and Related Equipment Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and assembling engines, power transmissions and engine accessories such as water pumps, radiators and carburetors for use in transport vehicles, construction, agricultural or other mechanized equipment. Activities include: fitting, pressing, bolting and aligning to install parts, components or accessories; and adjusting fabricated or assembled equipment, using common or special hand and power tools and equipment. Includes occupations concerned with rebuilding engines to specification using new or reworked parts. Occupations concerned with repairing installed engines are in Minor Group 858—MECHANICS AND REPAIRMEN, EXCEPT ELECTRICAL. Occupations concerned with installing and repairing marine engines are in Unit Group 8592—MARINE CRAFT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS.

8513—Motor Vehicle Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and assembling entire motor vehicles, trailers, sub-assemblies, parts and accessories such as brakes, bumpers, shock absorbers and windshield wipers on a factory production line utilizing manufactured parts and assemblies. Activities include: fitting, bolting and rivetting to install parts, engines or other components; and adjusting fabricated or assembled components using common or special hand and power tools or equipment. Motor vehicle repairing occupations are in Unit Group 8581—MOTOR VEHICLE MECHANICS AND REPAIRMEN.

8515—Aircraft Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with assembling aircraft and aircraft sub-assemblies such as power plants, undercarriages, tails and wings, normally utilizing manufactured parts and components. Activities include: fitting, bolting, rivetting and adjusting fabricated or assembled equipment using common or special hand and power tools and jigs and fixtures. Aircraft repairing occupations are in Unit Group 8582—AIRCRAFT MECHANICS AND REPAIRMEN. Occupations concerned with assembling and installing aircraft instruments are in Unit Group 8527—PRECISION INSTRUMENTS AND RELATED EQUIPMENT FABRICATING AND ASSEMBLING OCCUPATIONS, N.E.C. Occupations concerned with fabricating, assembling and installing electrical and electronic aircraft equipment are in Minor Group 853—FABRICATING, ASSEMBLING, INSTALLING AND REPAIRING OCCUPATIONS: ELECTRICAL, ELECTRONIC AND RELATED EQUIPMENT.

8523—Industrial, Farm, Construction and Other Mechanized Equipment and Machinery Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and assembling industrial machinery and equipment such as, printing machinery, textile manufacturing equipment; turbines and steam generators; material handling equipment; farm equipment and machinery such as, combines, ploughs, discs, milking machines and separators; construction machinery and equipment such as, graders, bulldozers and cranes; railway rolling stock. Activities include: aligning, fitting, fastening, bolting, rivetting and welding to install parts, engines and other components and assemblies; and finishing and adjusting fabricated or assembled equipment using common or special hand and power tools and equipment. Industrial, farm, construction and other mechanized equipment repairing occupations are in Unit Group 8584—INDUSTRIAL, FARM AND CONSTRUCTION MACHINERY MECHANICS AND REPAIRMEN.

8525—Business and Commercial Machines Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and

assembling typewriters; and calculating, book-keeping, adding, duplicating and similar business machines from manufactured parts and assemblies. Activities include: fitting, bolting, screwing and fastening to install parts and assemblies, and adjusting parts and assemblies, using a variety of common or special hand and power tools and equipment. Business and commercial machines repairing occupations are in Unit Group 8585—BUSINESS AND COMMERCIAL MACHINE MECHANICS AND REPAIRMEN. Electronic data-processing equipment assembling occupations are in Unit Group 8534—ELECTRONIC EQUIPMENT FABRICATING AND ASSEMBLING OCCUPATIONS.

8526—Inspecting, Testing, Grading and Sampling Occupations: Fabricating and Assembling Metal Products, n.e.c.

This unit group includes occupations, not elsewhere classified, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with the quality control activities in the fabrication and assembly of metal components or complete products.

8527—Precision Instruments and Related Equipment Fabricating and Assembling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and assembling precision instruments and related equipment such as scientific instruments; measuring and

controlling devices; optical instruments; surgical, medical and dental instruments and apparatus; cameras; projectors; timepieces; and similar items. Activities include: fitting and assembling previously manufactured parts; installing components and assemblies; and adjusting and calibrating precision equipment to ensure compliance with specifications; using a variety of common or special handtools, bench machines and special equipment. Occupations concerned with fabricating and assembling instruments for measuring, recording and controlling electrical characteristics are in Minor Group 853—FABRICATING, ASSEMBLING, INSTALLING AND REPAIRING OCCUPATIONS: ELECTRICAL, ELECTRONIC AND RELATED EQUIPMENT.

8528—Occupations in Labouring and Other Elemental Work, Fabricating and Assembling Metal Products, n.e.c.

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating and assembling a wide variety of metal products and mechanical equipment designed for general use in domestic, commercial, industrial, construction, agricultural or other activities.

8529—Other Fabricating and Assembling Occupations, Metal Products, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating and assembling metal products.

853—FABRICATING, ASSEMBLING, INSTALLING AND REPAIRING OCCUPATIONS: ELECTRICAL, ELECTRONIC AND RELATED EQUIPMENT

This minor group includes occupations concerned with fabricating, assembling, installing and repairing electrical and electronic equipment for domestic, industrial and commercial use such as motors, generators and batteries; communication equipment; electronic data-processing equipment; radio and television receivers; electric and electronic components; and parts such as coils, transformers, light bulbs, radio tubes, capacitors, resistors, printed circuits and switches. These occupations are classified in the following unit groups:

- | | |
|------|---|
| 8530 | Foremen: Fabricating, Assembling, Installing and Repairing Occupations; Electrical, Electronic and Related Equipment |
| 8531 | Electrical Equipment Fabricating and Assembling Occupations |
| 8533 | Electrical and Related Equipment Installing and Repairing Occupations, n.e.c. |
| 8534 | Electronic Equipment Fabricating and Assembling Occupations |
| 8535 | Electronic and Related Equipment Installing and Repairing Occupations, n.e.c. |
| 8536 | Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment |

- 8537 **Radio and Television Service Repairmen**
- 8538 **Occupations in Labouring and Other Elemental Work: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment**
- 8539 **Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment, n.e.c.**

8530 - Foremen: Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating, assembling, installing and repairing electrical, electronic and related equipment.

8531 - Electrical Equipment Fabricating and Assembling Occupations

This unit group includes occupations concerned with fabricating and assembling a wide variety of electrical equipment such as electric motors and generators; household electrical appliances such as toasters, mixers, coffee makers, refrigerators, electric stoves, vacuum cleaners, washers, driers and their related controls; industrial and commercial electrical equipment such as commercial freezers, stoves and ovens; electrical control equipment; and wet or dry cells, storage batteries and battery packs. Activities include: fitting and fastening previously manufactured parts; installing modules or assemblies; winding coils and armatures; and assembling and filling batteries; using jigs and a variety of common or special tools and equipment.

8533 - Electrical and Related Equipment Installing and Repairing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with installing and repairing various kinds of electrical machinery and other electrical apparatus used for a wide variety of applications such as domestic appliances, industrial machinery, office machines, transport vehicles, aircraft and ships. Activities include: cutting, stripping, fitting, and soldering wires; installing components and connecting circuitry; replacing wiring and defective parts; disassembling components such as motors, switches and control devices to effect repairs; and making adjustments and replacements on site, in a shop, or in a factory, using a variety of hand and power tools and specialized equipment. Construction electricians are in Unit Group 8733 - CONSTRUCTION ELECTRICIANS AND REPAIRMEN.

8534 - Electronic Equipment Fabricating and Assembling Occupations

This unit group includes occupations concerned with fabricating and assembling electronic and re-

lated equipment such as radio and television transmitters and receivers; sound recording and reproduction equipment; telephone and telegraph equipment and other communication equipment; navigation equipment; radar, burglar, radiation and other detection apparatus; analysing and computing equipment; electronic test equipment; and electronic components such as radio tubes, resistors, inductors, transformers, capacitors, semi-conductors, potentiometers and printed circuitry. Activities include: fastening and assembling manufactured parts and assemblies; and adjusting and calibrating parts and assemblies using a variety of common or special hand and power tools, jigs and specialized equipment. Electronic repairmen are in Unit Group 8535 - ELECTRONIC AND RELATED EQUIPMENT INSTALLING AND REPAIRING OCCUPATIONS, N.E.C.

8535 - Electronic and Related Equipment Installing and Repairing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with installing and repairing a wide variety of electronic and related equipment such as radio and television transmitters, navigation aids and radars, analysing and computing equipment, radiation detection apparatus, and test equipment and accessories. Activities include: cutting, stripping and soldering wires; mounting parts and connecting circuitry; disassembling and replacing components; and calibrating and making adjustments and replacements on site, in a shop or in a factory, using a variety of handtools and specialized equipment. Wire communications installing and repairing occupations are in Unit Group 8735 - WIRE COMMUNICATIONS AND RELATED EQUIPMENT INSTALLING AND REPAIRING OCCUPATIONS.

8536 - Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the fabrication, assembly, installation and repair of electrical, electronic and related equipment.

8537 - Radio and Television Service Repairmen

This unit group includes occupations concerned with repairing radio and television receivers, recorders, phonographs and related equipment. Activities include: disassembling, adjusting and calibrating; and soldering and replacing parts, modules and assemblies; using a variety of common and special handtools and equipment.

8538 - Occupations in Labouring and Other Elemental Work: Fabricating, Assembling, Installing and Repairing Electrical, Electronic and Related Equipment

This unit group includes occupations, in labouring or other elemental work, as described under the

term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating, assembling, installing and repairing electrical, electronic and related equipment.

8539 - Fabricating, Assembling, Installing and Repairing Occupations: Electrical, Electronic and Related Equipment, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating, assembling, installing and repairing electrical, electronic and related equipment.

854 - FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS, WOOD PRODUCTS

This minor group includes occupations concerned with fabricating, assembling and repairing a variety of products made from wood such as boxes, barrels, doors, window and door frames, furniture and display cabinets. These occupations are classified in the following unit groups:

- 8540 Foremen: Fabricating, Assembling and Repairing Occupations, Wood Products**
- 8541 Cabinet and Wood Furniture Makers**
- 8546 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing, Wood Products**
- 8548 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing, Wood Products**
- 8549 Fabricating, Assembling and Repairing Occupations, Wood Products, n.e.c.**

8540 - Foremen: Fabricating, Assembling and Repairing Occupations, Wood Products

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating, assembling and repairing wood products.

8541 - Cabinet and Wood Furniture Makers

This unit group includes occupations concerned with making wooden products such as home furniture, office equipment, doors, window and door frames, and store fixtures. Activities include: laying out, cutting, shaping, assembling, finishing, installing and repairing, using a variety of common and special wood-working tools and power equipment. Occupations concerned with painting and polishing wooden furniture are in Unit Group 8595 - PAINTING AND DECORATING OCCUPATIONS, EXCEPT CONSTRUCTION.

8546 - Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing, Wood Products

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the fabrication, assembly and repair of wood products.

8548 - Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing, Wood Products

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating, assembling and repairing wood products.

8549 - Fabricating, Assembling and Repairing Occupations, Wood Products, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating, assembling and repairing wood products. Occupations concerned with wood carving, barrelmaking and fabrication and repair of musical instruments primarily made of wood—such as violins—are in this group.

**855/856 - FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS:
TEXTILE, FUR AND LEATHER PRODUCTS**

This minor group includes occupations concerned with fabricating, assembling and repairing textile, fur and leather products such as garments, headwear, gloves and footwear; house furnishings, drapes and carpets; commercial and industrial products; textile surgical goods; and tentage, sacks, harness and felt goods. These occupations are classified in the following unit groups:

8550	Foremen: Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products
8551	Patternmaking, Marking and Cutting Occupations: Textile, Fur and Leather Products
8553	Tailors and Dressmakers
8555	Furriers
8557	Milliners, Hat and Cap Makers
8561	Shoemaking and Repairing Occupations
8562	Upholsterers
8563	Sewing Machine Operators, Textile and Similar Materials
8566	Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing Textile, Fur and Leather Products
8568	Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing Textile, Fur and Leather Products.
8569	Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products, n.e.c.

8550 - Foremen: Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating, assembling and repairing textile, fur and leather products.

8551 - Patternmaking, Marking and Cutting Occupations: Textile, Fur and Leather Products

This unit group includes occupations concerned with making patterns and laying out, marking, cutting or punching textile, fur and leather to make or prepare pieces or parts for products such as garments, footwear, sails and upholstery prior to assembling, fastening or sewing.

8553 - Tailors and Dressmakers

This unit group includes occupations concerned with making made-to-measure garments and altering and repairing articles of clothing such as suits and dresses. Activities include: designing, measuring,

laying out, cutting, hand or machine sewing, fitting, adjusting and finishing garments to customer's body measurements.

8555 - Furriers

This unit group includes occupations concerned with making fur garments and accessories. Activities include: designing, arranging, laying out, cutting, piecing, shaping, fitting, sewing, and finishing prepared skins of fur bearing animals; and altering and repairing fur and fur-lined garments and accessories.

8557 - Milliners, Hat and Cap Makers

This unit group includes occupations concerned with fashioning and making hats, caps and related accessories. Activities include: designing, laying out, cutting, piecing, sewing, moulding and pressing textile, fur, felt, leather and other materials into desired styles, shapes and sizes.

8561 - Shoemaking and Repairing Occupations

This unit group includes occupations concerned with making and repairing leather and leather soled

fabric-topped footwear. Activities include: forming materials over last into desired styles, shapes and sizes; cutting, trimming, skiving, sewing, nailing, tacking, buffing and finishing footwear.

8562 - Upholsterers

This unit group includes occupations concerned with upholstering products such as furniture; automobile seats; cushions and mattresses. Activities include: cutting, forming, padding, stuffing, springing, tying, sewing, beading and tacking textile, leather, plastic and similar materials.

8563 - Sewing Machine Operators, Textile and Similar Materials

This unit group includes occupations concerned with machine sewing all textiles and similar materials to produce articles such as carpets, draperies, bedding, aprons, bathing suits, dresses, skirts, slacks, pants, jackets and overcoats. Activities include: button-holing, edging, hemming, binding, joining, patching, scalloping, tucking and embroidering that normally occur in a production shop or factory.

8566 - Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing Textile, Fur and Leather Products

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the fabrication, assembly and repair of textile, fur and leather products.

8568 - Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing Textile, Fur and Leather Products

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating, assembling and repairing textile, fur and leather products.

8569 - Fabricating, Assembling and Repairing Occupations: Textile, Fur and Leather Products, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating, assembling and repairing textile, fur and leather products.

857 - FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS: RUBBER, PLASTIC AND RELATED PRODUCTS

This minor group includes occupations concerned with fabricating, assembling and repairing a variety of products made from rubber, plastic and related materials, such as tires, tubes, belts and rubber footwear, fibreglass boat hulls and products. These occupations are classified in the following unit groups:

- 8570 Foremen: Fabricating, Assembling and Repairing Occupations; Rubber, Plastic and Related Products**
- 8571 Bonding and Cementing Occupations: Rubber, Plastic and Related Products**
- 8573 Moulding Occupations: Rubber, Plastic and Related Products**
- 8575 Cutting and Finishing Occupations: Rubber, Plastic and Related Products**
- 8576 Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing Rubber, Plastic and Related Products**
- 8578 Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing Rubber, Plastic and Related Products**
- 8579 Fabricating, Assembling and Repairing Occupations: Rubber, Plastic and Related Products, n.e.c.**

8570 - Foremen: Fabricating, Assembling and Repairing Occupations: Rubber, Plastic and Related Products

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating, assembling and repairing rubber or plastic products.

8571 - Bonding and Cementing Occupations: Rubber, Plastic and Related Products

This unit group includes occupations concerned with bonding and cementing rubber or plastic materials or parts to produce finished products such as re-capped tires, belts, footwear and mats. Activities include: fitting, shaping, cleaning, cementing and finishing by hand or specialized machine.

8573 - Moulding Occupations: Rubber, Plastic and Related Products

This unit group includes occupations concerned with moulding rubber and plastic by injection, compression or laminating, using moulds, to produce parts for mechanical or electrical equipment and items such as household ware or rubber gloves; and shaping and vulcanizing by heat to produce tires and tubes or other items.

8575 - Cutting and Finishing Occupations: Rubber, Plastic and Related Products

This unit group includes occupations concerned with cutting and finishing rubber and plastic stock

to make parts for a variety of products. Activities include: laying out, marking, cutting, shaping, buffing and finishing rubber and plastic parts and components.

8576 - Inspecting, Testing, Grading and Sampling Occupations: Fabricating, Assembling and Repairing Rubber, Plastic and Related Products

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the fabrication, assembly and repair of rubber and plastic products.

8578 - Occupations in Labouring and Other Elemental Work: Fabricating, Assembling and Repairing Rubber, Plastic and Related Products

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating, assembling and repairing rubber and plastic products.

8579 - Fabricating, Assembling and Repairing Occupations: Rubber, Plastic and Related Products, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating, assembling and repairing rubber and plastic products including fibreglass hulls and parts of marine craft.

858 - MECHANICS AND REPAIRMEN, EXCEPT ELECTRICAL

This minor group includes occupations concerned with repairing, adjusting and servicing mechanical equipment such as motor vehicles, aircraft, railway rolling stock, farm and construction machinery, industrial and production machines, business machines, precision instruments and watches. Activities include installation of machines or equipment. A knowledge of a specific machine or product is normally required. Electrical repairing occupations are in Minor Group 853 - FABRICATING, ASSEMBLING, INSTALLING AND REPAIRING OCCUPATIONS: ELECTRICAL, ELECTRONIC AND RELATED EQUIPMENT. Occupations concerned with installing and repairing marine engines are in Unit Group 8592 - MARINE CRAFT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS. Occupations primarily concerned with setting up machines are classified in the same unit group as the operators. MECHANICS AND REPAIRMEN, EXCEPT ELECTRICAL are classified in the following unit groups:

8580	Foremen: Mechanics and Repairmen, Except Electrical
8581	Motor Vehicle Mechanics and Repairmen
8582	Aircraft Mechanics and Repairmen
8583	Rail Transport Equipment Mechanics and Repairmen
8584	Industrial, Farm and Construction Machinery Mechanics and Repairmen
8585	Business and Commercial Machine Mechanics and Repairmen

8586	Inspecting, Testing, Grading and Sampling Occupations: Equipment Repair, Except Electrical
8587	Watch and Clock Repairmen
8588	Precision Instrument Mechanics and Repairmen
8589	Mechanics and Repairmen, Except Electrical, n.e.c.

8580—Foremen: Mechanics and Repairmen, Except Electrical

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in repairing mechanical equipment such as motor vehicles, aircraft, rail transport equipment, industrial, farm and construction machinery, business and commercial machines, precision instruments, watches and clocks.

8581—Motor Vehicle Mechanics and Repairmen

This unit group includes occupations concerned with repairing body members, component parts and attachments; engines and accessories; and power trains and suspension systems in vehicles such as automobiles, trucks and buses. Activities include: servicing, disassembling, replacing and fitting parts, using common and special hand and power tools, machines and equipment.

8582—Aircraft Mechanics and Repairmen

This unit group includes occupations concerned with repairing aircraft, airframe components and related equipment, including aircraft engines and accessories. Activities include: servicing, disassembling, replacing and fitting parts; and adjusting equipment using common or special hand and power tools, machines and equipment.

8583—Rail Transport Equipment Mechanics and Repairmen

This unit group includes occupations concerned with repairing railway rolling stock and related equipment. Activities include: disassembling, servicing, replacing and fitting parts, using common or special hand and power tools and equipment. Diesel engine repairing occupations are in Unit Group 8584—INDUSTRIAL, FARM AND CONSTRUCTION MACHINERY MECHANICS AND REPAIRMEN.

8584—Industrial, Farm and Construction Machinery Mechanics and Repairmen

This unit group includes occupations concerned with repairing, adjusting and servicing a wide variety of mechanical equipment such as tractors, combines, bulldozers, production machinery and engines. Activities include: disassembling, aligning

and fitting parts; occasionally machining semi-finished or repaired parts; and installing and adjusting to specification using common or special hand or power tools and equipment.

8585—Business and Commercial Machine Mechanics and Repairmen

This unit group includes occupations concerned with repairing business and commercial machines such as calculating, bookkeeping, addressing, duplicating, adding machines and typewriters. Activities include: replacing worn or damaged parts and adjusting inter-related parts to synchronize their operation using common and special handtools and gauges.

8586—Inspecting, Testing, Grading and Sampling Occupations: Equipment Repair, Except Electrical

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the repair of equipment; except electrical.

8587—Watch and Clock Repairmen

This unit group includes occupations concerned with repairing watches and clocks and mechanical movements used in clockwork-operated devices such as timers, meters and recorders. Activities include: replacing parts, adjusting, calibrating and refinishing using common or specialized handtools, bench type machines and equipment.

8588—Precision Instrument Mechanics and Repairmen

This unit group includes occupations concerned with repairing scientific, engineering, optical and medical instruments and apparatus, photographic and similar equipment. Activities include: disassembling, replacing parts, adjusting, calibrating and refinishing using common or specialized handtools, bench type machines and equipment.

8589—Mechanics and Repairmen, Except Electrical, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with repairing, adjusting

and servicing mechanical equipment. Occupations primarily concerned with oiling and greasing mechanical equipment are in this unit group. Oilers working on ships are classified in Unit Group 9157 - ENGINE AND BOILER-ROOM CREW, SHIP. Oiling and

greasing occupations at the level of term title, LABOURER/ELEMENTAL WORKER (any ind.), are in Unit Group 9918 - OCCUPATIONS IN LABOURING AND OTHER ELEMENTAL WORK, N.E.C.

859 - OTHER PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with fabricating, assembling and repairing a variety of products such as jewellery, silverware, marine craft, pens and pencils, musical instruments, games, toys, sporting goods, brooms, brushes, candles, buttons, zippers and miscellaneous paper products. Includes painting and decorating occupations except those directly concerned with construction; and inspecting, testing, grading and sampling occupations, fabricating, assembling and repairing, not elsewhere classified. These occupations are classified in the following unit groups:

- 8590 Foremen: Product Fabricating, Assembling and Repairing Occupations, n.e.c.
- 8591 Jewellery and Silverware Fabricating, Assembling and Repairing Occupations
- 8592 Marine Craft Fabricating, Assembling and Repairing Occupations
- 8593 Paper Product Fabricating and Assembling Occupations
- 8595 Painting and Decorating Occupations, Except Construction
- 8596 Inspecting, Testing, Grading and Sampling Occupations: Product Fabricating, Assembling and Repairing, n.e.c.
- 8598 Occupations in Labouring and Other Elemental Work: Product Fabricating, Assembling and Repairing, n.e.c.
- 8599 Other Product Fabricating, Assembling and Repairing Occupations, n.e.c.

8590 - Foremen: Product Fabricating, Assembling and Repairing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in fabricating, assembling and repairing a variety of products such as jewellery, silverware, pens and pencils, musical instruments, games, toys, sporting goods, brooms, brushes, candles, buttons, zippers and miscellaneous paper products.

8591 - Jewellery and Silverware Fabricating, Assembling and Repairing Occupations

This unit group includes occupations concerned with fabricating, assembling and repairing solid and plated jewellery and silverware such as tableware, dresser sets, ornamental articles, medals, ecclesiastical ware, jewellers' findings and related items made of precious and semi-precious metals and alloys. Activities include: cutting, filling, soldering, grinding, setting precious and semi-precious stones, and polishing using handtools, soldering irons and torches, drills, files, tweezers and picks.

8592 - Marine Craft Fabricating, Assembling and Repairing Occupations

This unit group includes occupations concerned with building and repairing ships, and fabricating, assembling and repairing other metal, wood or fibre-glass marine craft. Activities include: laying out, marking and shaping parts; aligning, fitting and fastening fabricated parts and components; installing and repairing engines, auxiliary machinery, accessories, rigging and equipment; and making adjustments, using common or special hand and power tools, jacks, lifting and other equipment. Occupations concerned with moulding, laminating or finishing fibreglass boat hulls or parts are in Minor Group 857 - FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS: RUBBER, PLASTIC AND RELATED PRODUCTS.

8593 - Paper Product Fabricating and Assembling Occupations

This unit group includes occupations concerned with fabricating and assembling paper products such as paper bags, boxes, containers, liners and similar items. Activities include: winding, corrugating, facing, folding, creasing, sewing, gluing, cutting,

stapling and fitting interlocking parts to produce boxes, liners and dividers.

8595 - Painting and Decorating Occupations, Except Construction

This unit group includes occupations concerned with painting, decorating and applying protective or identifying materials using brushes, rollers, spray equipment or other devices; hand or machine dipping and coating; preparing surfaces and polishing; applying liquid or paste materials to produce "natural finishes" on wood, metal or similar surfaces; applying protective coatings; and painting transport equipment. Construction painting and decorating occupations are in Unit Group 8785 - PAINTERS, PAPERHANGERS AND RELATED OCCUPATIONS.

8596 - Inspecting, Testing, Grading and Sampling Occupations: Product Fabricating, Assembling and Repairing, n.e.c.

This unit group includes occupations, not elsewhere classified, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER,

concerned with quality control activities in the fabrication, assembly and repair of various other products such as jewellery, silverware, musical instruments, games, toys, sporting goods and miscellaneous paper products.

8598 - Occupations in Labouring and Other Elemental Work: Product Fabricating, Assembling and Repairing, n.e.c.

This unit group includes occupations, not elsewhere classified, in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with fabricating, assembling and repairing manufactured products.

8599 - Other Product Fabricating, Assembling and Repairing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with fabricating, assembling and repairing other products. Included in this group are occupations in the fabrication and assembly of mechanical and lead pencils.

MAJOR GROUP 87

CONSTRUCTION TRADES OCCUPATIONS

This major group includes occupations concerned with erecting, repairing and maintaining buildings and works such as bridges, highways, railways, airports, electrical power and communication lines, towers, waterways and utility services. These occupations are classified in the following minor groups:

- 871 Excavating, Grading, Paving and Related Occupations**
- 873 Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations**
- 878/879 Other Construction Trades Occupations**

871—EXCAVATING, GRADING, PAVING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with operating heavy earth-moving equipment in removal and placement of earth materials and grading earth surfaces; laying concrete and other paving materials for highways, airports and similar construction; constructing building surface and sub-surface drainage systems; and laying railway tracks and pipelines. These occupations are classified in the following unit groups:

- 8710 Foremen: Excavating, Grading, Paving and Related Occupations**
- 8711 Excavating, Grading and Related Occupations**
- 8713 Paving, Surfacing and Related Occupations**
- 8715 Railway Sectionmen and Trackmen**
- 8718 Occupations in Labouring and Other Elemental Work: Excavating, Grading and Paving**
- 8719 Excavating, Grading, Paving and Related Occupations, n.e.c.**

8710—Foremen: Excavating, Grading, Paving and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in operating heavy equipment to excavate or grade earth, lay paving materials, construct drainage systems and lay pipelines and railway tracks.

8711—Excavating, Grading and Related Occupations

This unit group includes occupations concerned with removing earth materials from excavations, grading earth surfaces and dredging irrigation ditches, canals and marine channels. Includes activities such as operating earth-moving equipment to excavate, move, level or load materials; laying and joining pipes in excavations; and operating air-locks and underground excavating machines. Rock and soil drilling occupations are in Unit Group 7713—OTHER ROCK AND SOIL DRILLING OCCUPATIONS. Blasting occupations are in Unit Group 7715—BLASTING OCCUPATIONS.

8713—Paving, Surfacing and Related Occupations

This unit group includes occupations concerned with laying concrete to form road-beds or other sub-surface structures and applying surfacing materials such as asphalt, gravel or concrete to streets, highways, parking lots or airports. Activities include operating machines to mix, spread or compact materials and level surfaces. Occupations concerned with finishing concrete, other than paving, are in Unit Group 8783—CONCRETE FINISHING AND RELATED OCCUPATIONS. Occupations concerned with mixing concrete or asphalt are in Unit Group 8799—OTHER CONSTRUCTION TRADES OCCUPATIONS, N.E.C.

8715—Railway Sectionmen and Trackmen

This unit group includes occupations concerned with laying, inspecting and repairing tracks and road-beds of railways, station yards, subways, street, mine and industrial railways.

8718—Occupations in Labouring and Other Elemental Work: Excavating, Grading and Paving

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with excavating and grading earth, laying paving materials, constructing drainage systems and laying pipelines and railway tracks.

8719—Excavating, Grading, Paving and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with excavating, grading, paving and related activities.

873—ELECTRICAL POWER, LIGHTING AND WIRE COMMUNICATIONS EQUIPMENT ERECTING, INSTALLING AND REPAIRING OCCUPATIONS

This minor group includes occupations concerned with erecting, installing and repairing equipment for electric power generation, transmission and distribution; wiring in buildings; and wire communication services. These occupations are classified in the following unit groups:

- 8730 Foremen: Electrical Power, Lighting and Wire Communication Equipment Erecting, Installing and Repairing Occupations**
- 8731 Electrical Power Linemen and Related Occupations**
- 8733 Construction Electricians and Repairmen**
- 8735 Wire Communications and Related Equipment Installing and Repairing Occupations**
- 8736 Inspecting, Testing, Grading and Sampling Occupations: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing**
- 8738 Occupations in Labouring and Other Elemental Work: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing**
- 8739 Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations, n.e.c.**

8730—Foremen: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating the activities of workers engaged in erecting, installing and repairing electrical power, lighting and wire communications equipment.

8731—Electrical Power Linemen and Related Occupations

This unit group includes occupations concerned with erecting and repairing powerlines and associated equipment used for generation, transmission and distribution of electric energy. Wire communications linemen are in Unit Group 8735—WIRE COMMUNICATIONS AND RELATED EQUIPMENT INSTALLING AND REPAIRING OCCUPATIONS.

8733—Construction Electricians and Repairmen

This unit group includes occupations concerned with installing wiring in buildings and adjacent areas to provide electric energy; installing lighting and other fixed equipment such as conduits, junction boxes, circuit protective devices, switches and controls; and making repairs to electrical installations. Occupations concerned with installing and repairing electrical machinery and other electrical apparatus are in Unit Group 8533—ELECTRICAL AND RELATED EQUIPMENT INSTALLING AND REPAIRING OCCUPATIONS, N.E.C.

8735—Wire Communications and Related Equipment Installing and Repairing Occupations

This unit group includes occupations concerned with erecting, installing, servicing and repairing overhead and underground telephone and telegraph lines and related equipment in central installations or place of use, to provide voice and telegraph

communications and services such as television relays, data transmission facilities, burglar alarms, fire detection, signalling and warning systems. Occupations concerned with fabricating and assembling this equipment are in Minor Group 853—FABRICATING, ASSEMBLING, INSTALLING AND REPAIRING OCCUPATIONS: ELECTRICAL, ELECTRONIC AND RELATED EQUIPMENT. Electrical power linemen are in Unit Group 8731—ELECTRICAL POWER LINEMEN AND RELATED OCCUPATIONS.

8736—Inspecting, Testing, Grading and Sampling Occupations: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the erection, installation and repair of equipment for electrical power

generation, transmission and distribution; wiring in buildings; and wire communication services.

8738—Occupations in Labouring and Other Elemental Work: Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with erecting, installing and repairing electrical power, lighting and wire communications equipment.

8739—Electrical Power, Lighting and Wire Communications Equipment Erecting, Installing and Repairing Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with erecting, installing and repairing electrical power, lighting and wire communications equipment.

878/879—OTHER CONSTRUCTION TRADES OCCUPATIONS

This minor group includes occupations concerned with erecting, repairing and maintaining buildings and other works. Includes activities such as: pouring concrete; erecting structures; plastering; brickwork; carpentry; painting; glazing; and installing plumbing, heating and similar equipment. These occupations are classified in the following unit groups:

8780	Foremen, Other Construction Trades Occupations
8781	Carpenters and Related Occupations
8782	Brick and Stone Masons and Tile Setters
8783	Concrete Finishing and Related Occupations
8784	Plasterers and Related Occupations
8785	Painters, Paperhangers and Related Occupations
8786	Insulating Occupations, Construction
8787	Roofing, Waterproofing and Related Occupations
8791	Pipefitting, Plumbing and Related Occupations
8793	Structural Metal Erectors
8795	Glaziers
8796	Inspecting, Testing, Grading and Sampling Occupations, Construction, Except Electrical
8798	Occupations in Labouring and Other Elemental Work, Other Construction Trades
8799	Other Construction Trades Occupations, n.e.c.

8780 - Foremen, Other Construction Trades Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in erecting, repairing and maintaining buildings and other works.

8781 - Carpenters and Related Occupations

This unit group includes occupations concerned with preparing and erecting wooden structures and installing fixtures, using power saws, planes, braces, hammers and other carpentry tools and woodworking machines. Ships carpenters are in Unit Group 8592 - MARINE CRAFT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS.

8782 - Brick and Stone Masons and Tile Setters

This unit group includes occupations concerned with preparing and laying brick, concrete block, tile, marble, refractory and related materials, using chisels, hammers, trowels, levels and other implements.

8783 - Concrete Finishing and Related Occupations

This unit group includes occupations concerned with pouring and casting concrete, levelling and smoothing cement and finishing similar hard surfaces, including laying and polishing of terrazo floors. Occupations concerned with paving are included in Unit Group 8713 - PAVING, SURFACING AND RELATED OCCUPATIONS.

8784 - Plasterers and Related Occupations

This unit group includes occupations concerned with applying plaster, stucco and related materials to structural surfaces: fastening laths to walls and ceilings to support plaster or related materials; applying coats of plaster to produce finished surfaces, mouldings and special effects; and erecting and finishing dry walls, e.g. plasterboard.

8785 - Painters, Paperhangers and Related Occupations

This unit group includes occupations concerned with applying paint and related materials to interior and exterior surfaces of buildings and other structures such as bridges and tanks, using brushes and spray guns. Includes applying wallpaper and fabrics to walls and ceilings and pasting signs on bill boards. Painting and decorating occupations, except construction, are in Unit Group 8595 - PAINTING AND DECORATING OCCUPATIONS, EXCEPT CONSTRUCTION.

8786 - Insulating Occupations, Construction

This unit group includes occupations concerned with applying thermal and acoustic insulating mate-

rials such as asbestos, cork, fibre glass and paper to buildings, heating, cooling and similar equipment, using fasteners, adhesives, saws, knives, rasps, trowels, brushes and other implements, to prevent or reduce the passage of heat, cold or sound.

8787 - Roofing, Waterproofing and Related Occupations

This unit group includes occupations concerned with covering roofs with asphalt, tar, metal, wood or other materials, and applying waterproofing and caulking materials to surfaces, using brushes, knives, shears, punches, hammers and other implements.

8791 - Pipefitting, Plumbing and Related Occupations

This unit group includes occupations concerned with installing and repairing plumbing and related equipment for water, gas, steam or other materials. Pipefitters concerned with installing and maintaining pipefitting systems integrated with equipment, such as automobiles and aircraft are in their appropriate unit group in Major Group 85 - PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS.

8793 - Structural Metal Erectors

This unit group includes occupations concerned with raising, positioning and joining pre-fabricated structural metal parts and sub-assemblies by bolting, screwing, rivetting or welding to form or repair completed frameworks or structures for buildings, bridges, tanks or similar works. These activities frequently involve working on support structures at considerable height. Occupations concerned with forming and shaping of metal and structural metal parts are in Unit Group 8337 - BOILERMAKERS, PLATERS AND STRUCTURAL METAL WORKERS.

8795 - Glaziers

This unit group includes occupations concerned with preparing and installing glass in buildings, furniture and vehicles, using bolts, screws, putty, grinding and buffing wheels, glass cutting tools, drills, handtools and other devices.

8796 - Inspecting, Testing, Grading and Sampling Occupations: Construction, Except Electrical

This unit group includes occupations in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities in the construction and maintenance of buildings, bridges, dams, highways and other types of construction, except electric power, light or wire communications construction.

8798 — Occupations in Labouring and Other Elemental Work, Other Construction Trades

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with erecting, repairing and maintaining buildings and other works.

8799 — Other Construction Trades Occupations, n.e.c.

This unit group includes construction trades occupations, not elsewhere classified, such as floor, tile and carpet layers; furnace installers; steam cleaners; sand-blasters; and mixers of ready-to-use concrete and asphalt.

MAJOR GROUP 91

TRANSPORT EQUIPMENT OPERATING OCCUPATIONS

This major group includes occupations concerned with operating transport equipment such as aircraft, trains, ships, trucks and buses to move freight and passengers. Includes occupations concerned with providing direct support to transportation of passengers and cargo. Occupations concerned with operating pumping and pipeline equipment to convey materials are in Unit Group 9539—STATIONARY ENGINE AND UTILITIES EQUIPMENT OPERATING AND RELATED OCCUPATIONS, N.E.C. TRANSPORT EQUIPMENT OPERATING OCCUPATIONS are classified in the following unit groups:

- 911 Air Transport Operating Occupations
- 913 Railway Transport Operating Occupations
- 915 Water Transport Operating Occupations
- 917 Motor Transport Operating Occupations
- 919 Other Transport Equipment Operating Occupations

911—AIR TRANSPORT OPERATING OCCUPATIONS

This minor group includes occupations concerned with operating and navigating aircraft in flight and providing direct support to air transport operations for transportation of passengers and cargo. Activities include: conducting aerial surveys, forestry patrols, crop dusting and other air services. Instructors of flight crews and ground crews are included in Unit Group 2797—INSTRUCTORS AND TRAINING OFFICERS, N.E.C. AIR TRANSPORT OPERATING OCCUPATIONS are classified in the following unit groups:

- 9110 Foremen, Air Transport Operating Occupations
- 9111 Air Pilots, Navigators and Flight Engineers
- 9113 Air Transport Operating Support Occupations
- 9119 Air Transport Operating Occupations, n.e.c.

9110—Foremen, Air Transport Operating Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in providing direct support to air transport operations.

9111—Air Pilots, Navigators and Flight Engineers

This unit group includes occupations concerned with piloting airplanes; navigating, using radio and other navigation aids, charts, celestial observations and dead reckoning; and observing performance of engines and making adjustments to fuel and engine controls during flight.

9113—Air Transport Operating Support Occupations

This unit group includes occupations concerned with providing direct ground support to air transport operations. Activities include: scheduling crews and aircraft; controlling air traffic during take-off and landing and en route, communicating with aircraft by radiotelegraph and radiotelephone; operating navigation aids; fueling, blocking and staking aircraft. Stewardesses are included in Unit Group 6145—HOSTESSES AND STEWARDS, EXCEPT FOOD AND BEVERAGE. Aircraft mechanics and repairmen are in Unit Group 8582—AIRCRAFT MECHANICS AND REPAIRMEN.

9119—Air Transport Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with air transport operations.

913 - RAILWAY TRANSPORT OPERATING OCCUPATIONS

This minor group includes occupations concerned with transporting passengers and freight by operating and controlling the movement of trains and providing direct support to railway transport operations. Activities include: signalling operational information to trains, stations, yards and rail traffic control towers; making up trains in freight yards; classifying freight; routing cars; and servicing rolling stock. These occupations are classified in the following unit groups:

9130	Foremen, Railway Transport Operating Occupations
9131	Locomotive Engineers and Firemen
9133	Conductors and Brakemen, Railway
9135	Railway Transport Operating Support Occupations
9139	Railway Transport Operating Occupations, n.e.c.

9130 - Foremen, Railway Transport Operating Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in operating and controlling the movement of trains and providing direct support to railway transport operations.

9131 - Locomotive Engineers and Firemen

This unit group includes occupations concerned with driving and firing diesel, electric or steam railway locomotives. Activities include: operating controls of locomotive; communicating by using radiotelephone; interpreting train orders, signals and railway rules and regulations; and inspecting locomotive to ensure adequate fuel supply and proper functioning of equipment.

9133 - Conductors and Brakemen, Railway

This unit group includes occupations concerned with directing the activities of crews on trains carrying passengers, freight and mail. Activities

include: preparing trains for runs and safeguarding them en route; collecting tickets from passengers; preparing operational reports; connecting and disconnecting cars; and adjusting and making minor repairs during the trip.

9135 - Railway Transport Operating Support Occupations

This unit group includes occupations concerned with providing direct support to railway transport operations. Activities include: assigning crews to trains; making up, dispatching and controlling train traffic; operating and controlling signals and safety equipment at stations and level crossings; and maintaining contact with trains and stations by radiotelephone. RAIL TRANSPORT EQUIPMENT MECHANICS AND REPAIRMEN are in Unit Group 8583 and TELEGRAPH OPERATORS are in Unit Group 9553.

9139 - Railway Transport Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with railway transport operations.

915 - WATER TRANSPORT OPERATING OCCUPATIONS

This minor group includes occupations concerned with operating and controlling fresh water, coastal or sea-going vessels to transport passengers and cargo and providing direct support to water transport operations such as operating communications and navigational aids and tending locks and bridges. Occupations concerned with the operation of dredges to mine ore are in Unit Group 7719 - MINING AND QUARRYING INCLUDING OIL AND GAS FIELDS OCCUPATIONS, N.E.C. and those concerned with dredging canals and marine channels are in Minor Group 871 - EXCAVATING, GRADING, PAVING AND RELATED OCCUPATIONS. WATER TRANSPORT OPERATING OCCUPATIONS are classified in the following unit groups:

9151	Deck Officers
9153	Engineering Officers, Ship
9155	Deck Crew, Ship
9157	Engine and Boiler-room Crew, Ship
9159	Water Transport Operating Occupations, n.e.c.

9151 - Deck Officers

This unit group includes occupations concerned with managing and operating vessels on ocean or inland waterways. Activities include: planning, executing and directing the work of crews; steering, navigating and controlling the vessel; safeguarding passengers, crew and cargo; and piloting the vessel in rivers, harbours and other waters.

9153 - Engineering Officers, Ship

This unit group includes occupations concerned with planning, coordinating and supervising the work of the engine-room crew aboard ship; and operating and repairing main engines, boilers, steering and deck machinery, motors, pumps, generators, condensers and other mechanical and electrical equipment.

9155 - Deck Crew, Ship

This unit group includes occupations concerned with performing deck and bridge duties aboard ves-

sels. Activities include: steering the ship as directed by a deck officer; maintaining deck equipment; loading supplies and provisions; and other tasks.

9157 - Engine and Boiler-room Crew, Ship

This unit group includes occupations concerned with tending boilers; lubricating and repairing engines and other machinery; and cleaning and painting engine-room and machines, as directed by ship's engineering officers.

9159 - Water Transport Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with water transport operations such as operating lighthouse equipment and related navigation aids and tending locks and bridges.

917 - MOTOR TRANSPORT OPERATING OCCUPATIONS

This minor group includes occupations concerned with operating buses, trucks, taxis and similar vehicles to carry passengers, goods and materials over short or long distances and providing direct support to motor transport operations such as dispatching and scheduling vehicles. MOTOR VEHICLE MECHANICS AND REPAIRMEN are in Unit Group 8581. MOTOR TRANSPORT OPERATING OCCUPATIONS are classified in the following unit groups:

9170	Foremen, Motor Transport Operating Occupations
9171	Bus Drivers
9173	Taxi Drivers and Chauffeurs
9175	Truck Drivers
9179	Motor Transport Operating Occupations, n.e.c.

9170 - Foremen, Motor Transport Operating Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in operating motor vehicles and providing direct support to motor transport operations.

9171 - Bus Drivers

This unit group includes occupations concerned with conveying passengers by operating buses over established routes to local or distant points.

9173 - Taxi Drivers and Chauffeurs

This unit group includes occupations concerned

with operating taxis and automobiles to transport passengers.

9175 - Truck Drivers

This unit group includes occupations concerned with operating trucks, tractor trailers and similar vehicles over short or long distances, to haul bulk materials or detailed loads. Operators of heavy earth-moving equipment are in Unit Group 8711 - EXCAVATING, GRADING AND RELATED OCCUPATIONS.

9179 - Motor Transport Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with motor transport operations.

919—OTHER TRANSPORT AND RELATED EQUIPMENT OPERATING OCCUPATIONS

This minor group includes occupations, not elsewhere classified, concerned with operating other transport and related equipment. MATERIALS HANDLING AND RELATED OCCUPATIONS are in Major Group 93. OTHER TRANSPORT AND RELATED EQUIPMENT OPERATING OCCUPATIONS are classified in the following unit groups:

- | | |
|-------------|---|
| 9190 | Foremen, Other Transport and Related Equipment Operating Occupations |
| 9191 | Subway and Street Railway Operating Occupations |
| 9193 | Motormen and Dinkeymen, Except Rail Transport |
| 9199 | Other Transport and Related Equipment Operating Occupations, n.e.c. |

9190—Foremen, Other Transport and Related Equipment Operating Occupations

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in operating other transport and related equipment.

9191—Subway and Street Railway Operating Occupations

This unit group includes occupations concerned with operating street cars, subway trains and similar equipment to transport passengers.

9193—Motormen and Dinkeymen, Except Rail Transport

This unit group includes occupations concerned with operating equipment such as diesel or gasoline powered industrial and mine railway equipment, and dinkey cars in mines, quarries and yards.

9199—Other Transport and Related Equipment Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with operating other transport and related equipment such as street sweepers and specialized snow removal equipment.

MAJOR GROUP 93

MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C.

This major group includes occupations, not elsewhere classified, concerned with moving, lifting, loading and packaging materials and products. These occupations are classified in the following minor group:

931 Materials Handling and Related Occupations, n.e.c.

931—MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C.

This minor group includes occupations concerned with loading, moving and packaging materials or products. Activities include: operating cranes, hoists and materials handling equipment to move and warehouse stores; loading ships, trains, aircraft and trucks; and packaging goods, products or materials for shipping or storage. Elevator operators are in Unit Group 6193—ELEVATOR OPERATING OCCUPATIONS. MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C. are classified in the following unit groups:

- 9310 Foremen: Materials Handling and Related Occupations, n.e.c.**
- 9311 Hoisting Occupations, n.e.c.**
- 9313 Longshoremen, Stevedores and Freight Handlers**
- 9315 Materials Handling Equipment Operators, n.e.c.**
- 9317 Packaging Occupations, n.e.c.**
- 9318 Occupations in Labouring and Other Elemental Work, Materials Handling**
- 9319 Materials Handling and Related Occupations, n.e.c.**

9310—Foremen: Materials Handling and Related Occupations, n.e.c.

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in loading, moving and packaging products or materials.

9311—Hoisting Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with lifting and moving materials, machines and products, using equipment such as power operated cranes, hoists and winches. Activities include: erecting, rigging and splicing cables, and attaching ropes, chains, slings and shackles. Occupations concerned with hoisting and moving logs are in Unit Group 7517—LOG HOISTING, SORTING, MOVING AND RELATED OCCUPATIONS.

9313—Longshoremen, Stevedores and Freight Handlers

This unit group includes occupations concerned with loading and unloading ships, barges, trucks,

rail cars, aircraft and other transportation conveyances. Activities include: assembling cargo in slings; piling goods on pallets to facilitate movement; stowing cargo in ships, rail cars and aircraft; and moving and storing goods and materials in sheds and warehouses.

9315—Materials Handling Equipment Operators, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with operating materials handling equipment.

9317—Packaging Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, primarily concerned with such activities as assembling containers; covering articles or goods with protective materials; cleaning, closing, labelling and stencilling packages; tending filling, packaging or wrapping machines; and preparing and packaging samples for display purposes. This designation covers packaging occupations wherever they occur except when packaging constitutes an integral part of processing such as canning or freezing fruits, vegetables or fish.

9318 – Occupations in Labouring and Other Elemental Work, Materials Handling

This unit group includes occupations in labouring or other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with loading, moving and packaging materials and products.

9319 – Materials Handling and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with materials handling and related activities.

MAJOR GROUP 95

OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS

This major group includes occupations concerned with other crafts and operating a variety of equipment requiring the application of particular techniques. Includes operating printing presses, printing machines used for paper or paper products, and bookbinding machines; stationary engines; power stations and utilities equipment; electronic and related equipment for radio and television broadcasting, motion picture projection, sound recording and reproduction; developing and processing photographic film; and performing related activities. These occupations are classified in the following minor groups:

- 951 Printing and Related Occupations**
- 953 Stationary Engine and Utilities Equipment
 Operating and Related Occupations**
- 955 Electronic and Related Communications
 Equipment Operating Occupations, n.e.c.**
- 959 Other Crafts and Equipment Operating
 Occupations, n.e.c.**

951 - PRINTING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with handsetting text or display type; making and mounting plates of line or continuous tone illustrations; assembling hand or machine-set type, plates and spacing material to make up pages and forms; reproducing type, illustrations, pages and forms by photoengraving, lithographic process, electrotyping or stereotyping to make plates for printing presses; copying lettering, lines or designs and retouching art work; etching or engraving printing rollers; embossing; bookbinding; and related activities. Includes occupations concerned with printing on paper, metal, textiles and other materials by such means as silk screening, engraved blocks or machines equipped with engraved rollers, and performing related tasks. These occupations are classified in the following unit groups:

- 9510 Foremen, Printing and Related Occupa-
 tions**
- 9511 Typesetters and Compositors**
- 9512 Printing Press Occupations**
- 9513 Stereotypers and Electrotypers**
- 9514 Printing Engravers, Except Photoengravers**
- 9515 Photoengravers and Related Occupations**
- 9517 Bookbinders and Related Occupations**
- 9518 Occupations in Labouring and Other Ele-
 mental Work: Printing and Related, n.e.c.**
- 9519 Printing and Related Occupations, n.e.c.**

9510 - Foremen, Printing and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in printing, bookbinding and related activities.

9511 - Typesetters and Compositors

This unit group includes occupations concerned with assembling and setting type by hand or machine. Activities include: operating linotype, monotype and phototypesetting machines; arranging and locking up pages of set-type in predetermined sequence in readiness for printing; and disassembling type after printing.

9512 - Printing Press Occupations

This unit group includes occupations concerned with printing designs or lettering on sheet metal, paper, textiles and other materials by means of cylinder, flat bed or platen printing presses. Occupations concerned with operating office copying, embossing and addressing machines are in Unit Group 4141 - OFFICE MACHINE OPERATORS. Occupations concerned with embossing, printing and stamping designs or lettering on paper or other materials by means of machines other than printing presses are in Unit Group 9519 - PRINTING AND RELATED OCCUPATIONS, N.E.C.

9513 - Stereotypers and Electrotypers

This unit group includes occupations concerned with making printing plates from moulds or matrices on which type matter and designs have been impressed. Activities include: casting molten-metal into matrix and depositing copper on matrix.

9514 - Printing Engravers, Except Photoengravers

This unit group includes occupations concerned with engraving and etching (by hand, machine or chemicals), plates, cylinders, dies, blocks and stones used in printing by letterpress, gravure and direct lithographic processes.

9515 - Photoengravers and Related Occupations

This unit group includes occupations concerned with reproducing line or continuous tone copy on metallic printing plates for use in letterpress and gravure printing, using photo-etching process; mounting and photographing copy; developing latent images on plates; and etching plates to leave raised or depressed printing surface. Production engravers and etchers are in Unit Group 8391 - ENGRAVERS, ETCHERS AND RELATED OCCUPATIONS. Artistic engravers and etchers are in Unit Group 3311 - PAINTERS, SCULPTORS AND RELATED ARTISTS.

9517 - Bookbinders and Related Occupations

This unit group includes occupations concerned with binding books, pamphlets, business forms and other printed matter by hand and machine. Activities include: folding, gathering and collating signatures; sewing or stapling gathered signatures to form book bodies; pressing, trimming and reinforcing book bodies; fabricating and affixing covers; applying decorations and lettering to bound books; and assembling various types of maps and charts.

9518 - Occupations in Labouring and Other Elemental Work: Printing and Related, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with labouring or elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.), which are concerned with printing and related occupations.

9519 - Printing and Related Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with embossing, printing and stamping designs or lettering on paper or other materials by means of machines other than printing presses. Included are silk-screen printing occupations.

953 - STATIONARY ENGINE AND UTILITIES EQUIPMENT OPERATING AND RELATED OCCUPATIONS

This minor group includes occupations concerned with operating equipment for generation and distribution of electricity and steam; production and distribution of natural and artificial gas; refrigeration plants; filtration, purification and distribution of water; collection, treatment and disposal of sewage and refuse; and operating pipeline equipment to convey materials. These occupations are classified in the following unit groups:

- 9530 Foremen, Stationary Engine and Utilities Equipment Operating and Related Occupations
- 9531 Power Station Operators
- 9539 Stationary Engine and Utilities Equipment Operating and Related Occupations, n.e.c.

9530 - Foremen, Stationary Engine and Utilities Equipment Operating and Related Occupations

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers engaged in operating stationary engines and utilities equipment.

9531 - Power Station Operators

This unit group includes occupations concerned with controlling equipment in powerplants to produce electricity, utilizing coal, oil, hydraulic power and atomic energy; monitoring and controlling equipment used in manned or remote controlled substations and standby generating plants; and related activities

concerned with generation, transmission and distribution of electricity.

9539 - Stationary Engine and Utilities Equipment Operating and Related Occupations, n.e.c.

This unit group includes occupations concerned with operating and maintaining various types of stationary engines and other equipment such as compressors, generators, motors, pumps, furnaces, boilers and auxiliary equipment, used to supply light, steam, heat, refrigeration, gas, ventilation, air-conditioning and mechanical or electrical power to buildings, or other installations such as industrial plants, mines and mills; operating public utilities such as natural gas, water, sewage and refuse disposal; and operating pumping and pipeline equipment to convey materials.

**955 - ELECTRONIC AND RELATED COMMUNICATIONS EQUIPMENT
OPERATING OCCUPATIONS, N.E.C.**

This minor group includes occupations, not elsewhere classified, concerned with operating electronic and related communications equipment, such as radio and television receivers and transmitters; sound recording, transcribing and reproduction equipment; and motion picture projection equipment. These occupations are classified in the following unit groups:

9550	Foremen: Electronic and Related Communications Equipment Operating Occupations, n.e.c.
9551	Radio and Television Broadcasting Equipment Operators
9553	Telegraph Operators
9555	Sound Recording and Reproduction Equipment Operators
9557	Motion Picture Projectionists
9559	Electronic and Related Communications Equipment Operating Occupations, n.e.c.

9550 - Foremen: Electronic and Related Communications Equipment Operating Occupations, n.e.c.

This unit group includes occupations concerned with supervising and coordinating activities of workers, not elsewhere classified, engaged in operating electronic and related communications equipment.

9551 - Radio and Television Broadcasting Equipment Operators

This unit group includes occupations concerned with monitoring, controlling and operating radio and television broadcasting equipment. Occupations concerned with operating communications equipment in direct support of transportation, are in Major Group 91 - TRANSPORT EQUIPMENT OPERATING OCCUPATIONS. Teletype operators are in Unit Group 4113 - TYPISTS AND CLERK-TYPISTS. Telephone operators are in Unit Group 4175 - TELEPHONE OPERATORS. Telegraph operators are in Unit Group 9553 - TELEGRAPH OPERATORS. Radio and television announcers are in Unit Group 3337 - RADIO AND TELEVISION ANNOUNCERS.

9553 - Telegraph Operators

This unit group includes occupations concerned with operating telegraph equipment to transmit and

receive signals or messages and keeping related records. Telegraphic typewriter operators are in Unit Group 4113 - TYPISTS AND CLERK-TYPISTS.

9555 - Sound Recording and Reproduction Equipment Operators

This unit group includes occupations concerned with recording, transcribing and reproducing voice, music and other sounds by use of electronic equipment as for radio and television broadcasting, and motion picture and phonograph record production. Radio and television broadcasting equipment operators are in Unit Group 9551 - RADIO AND TELEVISION BROADCASTING EQUIPMENT OPERATORS.

9557 - Motion Picture Projectionists

This unit group includes occupations concerned with operating motion picture projection and related equipment to produce coordinated motion picture entertainment.

9559 - Electronic and Related Communications Equipment Operating Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with operating and controlling electronic and related communications equipment.

959 - OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS, N.E.C.

This minor group includes production and related occupations, not elsewhere classified, concerned with performing functions requiring application of particular techniques, use of particular tools or machines, and abilities and experience in working particular materials. These occupations are classified in the following unit groups:

9590	Foremen: Other Crafts and Equipment Operating Occupations, n.e.c.
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- 9591 Photographic Processing Occupations**
- 9599 Other Crafts and Equipment Operating Occupations, n.e.c.**

9590 – Foremen: Other Crafts and Equipment Operating Occupations, n.e.c.

This unit group includes occupations, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating activities of workers, not elsewhere classified, engaged in other crafts and equipment operating occupations.

9591 – Photographic Processing Occupations

This unit group includes occupations concerned with processing exposed photographic still and

motion picture film and making photographic prints, such as processing colour and black-and-white films and plates, to obtain negatives or transparent positives; printing and developing black-and-white or colour photographs with contact-printing equipment; enlarging or reducing photographs; or performing related tasks.

9599 – Other Crafts and Equipment Operating Occupations, n.e.c.

This unit group includes crafts and equipment operating occupations, not elsewhere classified.

MAJOR GROUP 99

OCCUPATIONS NOT ELSEWHERE CLASSIFIED

This major group includes occupations, not elsewhere classified, concerned with activities such as: supervising and coordinating; inspecting, testing, grading and sampling; labouring and other elemental work. The work performed of the occupations in this major group relates to more than one major group or cannot be classified in any single preceding major, minor or unit group. These occupations are classified in the following minor group:

991 Occupations Not Elsewhere Classified

991 - OCCUPATIONS NOT ELSEWHERE CLASSIFIED

This minor group includes occupations, not elsewhere classified, concerned with activities such as: supervising and coordinating; inspecting, testing, grading and sampling; labouring and other elemental work. The work performed of the occupations in this minor group relates to more than one major group or cannot be classified in any single preceding major, minor or unit group. These occupations are classified in the following unit groups:

- 9910 Supervisors and Foremen, n.e.c.**
- 9916 Inspecting, Testing, Grading and Sampling Occupations, n.e.c.**
- 9918 Occupations in Labouring and Other Elemental Work, n.e.c.**
- 9919 Other Occupations, n.e.c.**

9910 - Supervisors and Foremen, n.e.c.

This unit group includes occupations, not elsewhere classified, as described under the master title SUPERVISOR/FOREMAN (any ind.), concerned with supervising and coordinating workers' activities, including labouring and other elemental work. The work performed of the occupations in this unit group relates to more than one major group or cannot be classified in any single preceding major, minor or unit group.

9916 - Inspecting, Testing, Grading and Sampling Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, in inspecting, testing, grading and sampling work, as described under the term titles INSPECTOR, TESTER, GRADER and SAMPLER, concerned with quality control activities for various materials and products. The work performed of the occupations in this unit group relates to more than one major group or cannot be classified in any single preceding major group. Occupations concerned with enforcing and advising on government regulations are in Unit Group 1116 - INSPECTORS AND REGULATORY OFFICERS, GOVERNMENT. Occupations concerned with enforcing and advising on standards and adherence to establishment regulations in organizations or agencies other than municipal, provincial or federal governments, are in Unit Group

1176 - INSPECTORS AND REGULATORY OFFICERS, NON-GOVERNMENT. Non-government inspectors, graders and samplers in the fields of processing materials, machinery, fabricating and assembling goods or products are normally classified in special unit groups for INSPECTING, TESTING, GRADING AND SAMPLING OCCUPATIONS. If such a unit group does not exist, these occupations are classified in the residual unit group of the applicable minor group of the appropriate major group.

9918 - Occupations in Labouring and Other Elemental Work, n.e.c.

This unit group includes occupations, not elsewhere classified, concerned with activities in labouring and other elemental work, as described under the term title LABOURER/ELEMENTAL WORKER (any ind.). The work performed of the occupations in this unit group relates to more than one major group or cannot be classified in any single preceding major, minor or unit group.

9919 - Other Occupations, n.e.c.

This unit group includes occupations, not elsewhere classified, whose work performed relates to more than one major group or cannot be classified in any single preceding major, minor or unit group.

APPENDIX

Industry subdivisions (with SIC codes) of classes 1149 Other Managers and Administrators n.e.c. and 9918 Labourers, n.e.c.

(See reference to these subdivisions on page 7)

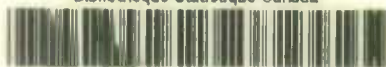
1149 Other Managers and Administrators, n.e.c.

Mines (incl. Milling), Quarries and Oil Wells (Ind. 051-099)
Durable Goods Manufacturing (Ind. 251-268, 291-359)
Non-durable Goods Manufacturing (Ind. 101-249, 271-289, 365-399)
Construction (Ind. 404-421)
Transportation, Communication and Other Utilities (Ind. 501-579)
Trade (Ind. 602-699)
Community, Business and Personal Service Industries (Ind. 801-899)
Other industries and unspecified (Ind. 000,001-047, 701-737, 902-991)

9918 Labourers, n.e.c.

Manufacturing (Ind. 101-399)
Transportation, Communication and other Utilities (Ind. 501-579)
Trade (Ind. 602-699)
Community, Business and Personal Service Ind. (Ind. 801-899)
Public Administration and Defence (Ind. 902-991)
Other industries and unspecified (Ind. 000,001-099, 404-421 & 701-737)

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