OFFICE OF MANAGEMENT AND BUDGET

1998 Standard Occupational Classification

AGENCY: Office of Management and Budget, Executive Office of the President

ACTION: Notice of Final Decisions

SUMMARY: Under title 44 U.S.C. 3504, the Office of Management and Budget (OMB) is announcing final decisions for the 1998 Standard Occupational Classification (SOC). In consultation with the Standard Occupational Classification Revision Policy Committee (SOCRPC), OMB based its decisions on public comments received in response to the SOCRPC’s final recommendations that were published in the Federal Register on August 5, 1998 (63 FR 41895-41923). The 1998 Standard Occupational Classification replaces the 1980 version. It covers all jobs in the national economy, including occupations in the public, private, and military sectors.

All Federal agencies that collect occupational data will use the 1998 SOC. Similarly, all State and local government agencies, as well as private sector organizations, are strongly encouraged to use this national system that provides a common language for categorizing occupations in the world of work. The new SOC system will be used by the Occupational Employment Statistics program of the Bureau of Labor Statistics for gathering occupational information. It will also replace the Bureau of the Census' 1990 occupational classification system and will be used for the 2000 Census. In addition, the new SOC will serve as the framework for information being gathered through the Department of Labor's Occupational Information Network (O*NET) which will replace the Dictionary of Occupational Titles (DOT).

In four prior Federal Register notices (February 28, 1995, 60 FR 10998-11002; October 5, 1995, 60 FR 52284-52286; July 7, 1997, 62 FR 36337-36409; and August 5, 1998 (63 FR 41895-41923)), OMB and the SOCRPC requested comment on the uses of occupational data; the existing 1980 SOC classification principles, purpose and scope, and conceptual options; the SOCRPC's proposed revision process; the composition of detailed occupations; the hierarchical structure and numbering system; and update procedures.

The hierarchical structure, numbering system, and occupational categories of the 1998 SOC are presented in Appendix A of this notice. Changes from the SOCRPC’s final recommendations are outlined below in the Supplementary Information section. The SOCRPC is preparing the 1998 Standard Occupational Classification Manual for publication. Committee members have completed definitions and assigned associated titles; agencies with occupational classification systems are developing crosswalks from
their existing systems to the 1998 SOC. To ensure that the successful efforts of the SOCRPC continue and that the 1998 SOC remains appropriate to the world of work, OMB plans to establish a new standing committee, the Standard Occupational Classification Policy Committee (SOCPC). The SOCPC will consult periodically to ensure that the implementation of the 1998 SOC is comparable across Federal agencies. This consultation will include regularly scheduled interagency communication to ensure a smooth transition to the 1998 SOC. The SOCPC will also perform SOC maintenance functions, such as recommending changes in the SOC occupational definitions and placement of new occupations. It is anticipated that the next major review and revision of the SOC will begin in 2005 in preparation for use in the 2010 Decennial Census.

DATES: Publication of the 1998 Standard Occupational Classification Manual is planned for the first half of 2000. Federal statistical agencies will begin using the 1998 SOC for occupational data they publish for reference years beginning on or after January 1, 2000. (The Bureau of Labor Statistics will begin using it for some data series for the last quarter of 1999.) Further information can be found in the Supplementary Information section below. Use of the SOC for nonstatistical purposes (e.g., for administrative, regulatory, or taxation functions) will be determined by the agency or agencies that have chosen to use the SOC for nonstatistical purposes. Readers interested in the effective dates for the use of the 1998 SOC for nonstatistical purposes should contact the relevant agency to determine the agency’s plans, if any, for a transition from the 1980 SOC to the 1998 SOC.

ADDRESSES: Correspondence about the adoption and implementation of the SOC as described in this Federal Register notice should be sent to: Katherine K. Wallman, Chief Statistician, Office of Management and Budget, 10201 New Executive Office Building, Washington, DC 20503, telephone number: (202) 395-3093, FAX number: (202) 395-7245 or E-mailed to < soc@omb.eop.gov >.

Electronic Availability: This document is available on the Internet from the Bureau of Labor Statistics via WWW browser and E-mail. To obtain this document via WWW browser, connect to < http://stats.bls.gov/soc/soc_home.htm >. This WWW page contains links to the 1998 SOC major groups; the complete 1998 SOC hierarchical structure and detailed occupational definitions; a numerical index of detailed occupations; an SOC user’s guide; and an SOC search capability, as well as previous SOC Federal Register notices and related documents. To obtain this document via E-mail, send a message to < socrevision@bls.gov >.

Inquiries about the definitions of particular occupations or requests for electronic copies of the SOC structure that cannot be satisfied by use of the web site should be

FOR FURTHER INFORMATION CONTACT: Paul Bugg, 10201 New Executive Office Bldg., Washington, DC 20503, E-mail address: soc@omb.eop.gov, telephone number: (202) 395-3093, FAX number: (202) 395-7245.

SUPPLEMENTARY INFORMATION

Purpose. The 1998 SOC was developed in response to a concern that the 1980 SOC did not meet the need for a universal occupational classification system that all Federal Government agencies and other collectors of occupational information would adopt. Despite the existence of the 1980 SOC, a variety of Government agencies have continued to collect and use occupational data based on unique classification systems designed for their individual needs. The existence of different occupational data collection systems in the Federal Government presents a major problem. Comparisons across these systems are limited by the completeness and accuracy of crosswalks between them. For example, data on occupation by educational attainment collected through the Current Population Survey can only be used with data on employment from the Occupational Employment Statistics program for those occupations that are considered comparable in both data collections. Observing this problem, the Bureau of Labor Statistics hosted an International Occupational Classification Conference in September 1992 to establish a new context for the SOC revision process. Many new ideas and approaches were presented that subsequently influenced the SOCRPC. Similarly, the Employment and Training Administration’s Advisory Panel for the Dictionary of Occupational Titles had completed a review of the dictionary and in May 1993 had recommended substantial changes. It became increasingly clear that development of an occupational classification standard that garners universal adherence would aid analysis of demographic, economic, educational, and other factors that affect employment, wages, and other worker characteristics.

Revision Process. Persuaded that a reconciliation was in order, OMB invited all Federal agencies with occupational classification systems to join together to revise the SOC and chartered the SOC Revision Policy Committee (SOCRPC) in October 1994. The SOCRPC included representatives from the Bureau of Labor Statistics, the Bureau of the Census, the Defense Manpower Data Center, the Employment and Training Administration, and the Office of Personnel Management. In addition, ex-officio members included the National Occupational Information Coordinating Committee, the National Science Foundation, and OMB. Other Federal agencies, such as the
Department of Education, the Department of Health and Human Services, and the Equal Employment Opportunity Commission, participated either in meetings of the SOCRPC or in the Federal Consultation Group, a group of Federal agency representatives with interests in the outcome of the SOC revision.

In February 1995, the Standard Occupational Classification Revision Policy Committee published a notice in the Federal Register (February 28, 1995, 60 FR 10998-11002) calling for comments specifically on the following: 1) the uses of occupational data, 2) the purpose and scope of occupational classification, 3) the principles underlying the 1980 SOC, 4) conceptual options for the new SOC, and 5) the SOC revision process. The SOCRPC chose the Occupational Employment Statistics system, an occupational classification currently used by the Bureau of Labor Statistics to gather occupational information, as the starting point for the new Standard Occupational Classification framework. The Committee also relied heavily on the Department of Labor's Occupational Information Network (O*NET), which is replacing the Dictionary of Occupational Titles. To carry out the bulk of the revision effort, the Committee created six work groups to examine occupations in the following areas:

- Administrative and Clerical occupations;
- Science, Engineering, Law, Health, Education, and Arts occupations;
- Services and Sales occupations;
- Agriculture, Construction, Extraction, and Transportation occupations;
- Mechanical and Production occupations; and
- Military Specific occupations.

The Committee charged the work groups with ensuring that the occupations under their consideration conformed to the criteria laid out in the October 5, 1995, Federal Register notice (60 FR 52284-52286):

The Classification should cover all occupations in which work is performed for pay or profit, including work performed in family-operated enterprises by family members who are not directly compensated. It should exclude occupations unique to volunteers.

The Classification should reflect the current occupational structure of the United States and have sufficient flexibility to assimilate new occupations into the structure as they become known.
While striving to reflect the current occupational structure, the Classification should maintain linkage with past systems. The importance of historical comparability should be weighed against the desire for incorporating substantive changes to occupations occurring in the work force.

Occupations should be classified based upon work performed, skills, education, training, licensing, and credentials.

Occupations should be classified in homogeneous groups that are defined so that the content of each group is clear.

Each occupation should be assigned to only one group at the lowest level of the Classification.

The employment size of an occupational group should not be the major reason for including or excluding it from separate identification.

Supervisors should be identified separately from the workers they supervise wherever possible in keeping with the real structure of the world of work. An exception should be made for professional and technical occupations where supervisors or lead workers should be classified in the appropriate group with the workers they supervise.

Apprentices and trainees should be classified with the occupations for which they are being trained, while helpers and aides should be classified separately since they are not in training for the occupation they are helping.

Comparability with the International Standard Classification of Occupations (ISCO-88) should be considered in the structure, but should not be an overriding factor.

In carrying out their reviews, the work groups carefully considered all proposals received in response to Federal Register notices issued by OMB and the SOCRPC. The work groups invited experts from many areas to testify and also requested written recommendations using the SOC revision guidelines. Their procedure was to develop a proposed structure plus a title, a definition, and a list of associated job titles. Each proposed occupation was reviewed by the SOCRPC.

**General Characteristics of the Revised SOC**

The 1998 SOC is designed to ensure comparable occupational classification across the spectrum of surveys of the world of work while mirroring the current occupational
structure in the Nation. The new system should lead to the collection of meaningful data about the workforce and benefit various users of occupational data. These users include education and training planners; job seekers, students, and others seeking career guidance; various government programs, including occupational safety and health, welfare-to-work, and equal employment opportunity; and private companies wishing to relocate or to set salary scales.

Reflecting advances in factory and office automation and information technology, the shift to a services-oriented economy, and increasing concern for the environment, the new classification structure has more professional, technical, and service occupations and fewer production and administrative support occupations. Although the designation “professional” does not exist in the 1998 SOC, the new classification system reflects expanded coverage of major occupational groups, such as computer and mathematical occupations, community and social services occupations, healthcare practitioners and technical occupations, and legal occupations. Designers, systems analysts, drafters, counselors, dentists, physicians, artists, and social scientists are among the occupations that are covered in greater detail in the 1998 SOC. For example, the SOC breaks out a number of designer specialties – commercial and industrial, fashion, floral, graphic, interior, and set and exhibit designers. Similarly, the new classification breaks out additional social science specialties – market and survey researchers, sociologists, anthropologists and archeologists, geographers, historians, and political scientists.

Examples of new occupations include environmental engineers; environmental engineering technicians; environmental scientists and specialists, including health; environmental science and protection technicians, including health; computer software engineers; multimedia artists and animators; and forensic science technicians. In the services groups, gaming occupations, such as gaming and sports book writers and runners, have been added as a result of growth among these occupations in several States. Other relatively new service occupations include skin care specialists, concierges, massage therapists, and fitness trainers and aerobics instructors.

Production occupations, on the other hand, have undergone significant consolidation. For example, various printing machine operators have been combined into one occupation in the 1998 SOC. Because many factories now employ one person to perform the tasks of setting up and operating machines, both tasks have been combined into one occupation. In addition, many factories now employ teams in which each team member is able to perform all or most of the team assembly activities; these people are included in the occupation, team assemblers. The SOC also includes relatively new production occupations such as semiconductor processors and fiberglass laminators and fabricators.
Office and administrative support occupations – for example, office machine operators – also have been consolidated. Relatively new office and administrative support occupations include customer service representatives and executive secretaries and administrative assistants.

To accommodate the needs of different data collection agencies, the SOC enables data collection at more detailed or less detailed levels, while still allowing data comparability at given levels of the hierarchy. In response to comments received in reference to the July 7, 1997, Federal Register notice (62 FR 36337-36409), the SOCRPC significantly modified the hierarchical structure and numbering system of the revised SOC to ensure that all detailed occupations are placed within a broad occupation. In the 1998 SOC, there are four levels of aggregation: 1) major group; 2) minor group; 3) broad occupation; and 4) detailed occupation. All occupations are clustered into 23 major groups (listed below), such as Management Occupations or Healthcare Practitioners and Technical Occupations. These major groups are broken down into occupationally-specific minor groups, such as Operations Specialties Managers in the Management Occupations major group or Health Diagnosing and Treating Practitioners in the Healthcare Practitioners and Technical Occupations major group. Minor groups, in turn, are divided into broad occupations, such as Human Resources Managers or Therapists, which are further divided into detailed occupations, such as Compensation and Benefits Managers, or Physical Therapists.

The 1998 SOC contains 822 detailed occupations, aggregated into 452 broad occupations. These broad occupations are grouped into 98 minor groups, that are, in turn, grouped into the 23 major groups. For comparison purposes, the 1980 SOC included 664 unit groups (comparable to detailed occupations in the 1998 SOC), 223 minor groups (comparable to broad occupations in the 1998 SOC), 60 major groups (comparable to minor groups in the 1998 SOC), and 22 divisions (comparable to major groups in the 1998 SOC).

Each item in the hierarchy is designated by a six-digit code. The first two digits of the 1998 SOC code represent the major group; the third digit represents the minor group; the fourth and fifth digits represent the broad occupation; and the sixth digit represents the detailed occupation. Major group codes end with 0000 (e.g., 29-0000, Healthcare Practitioners and Technical Occupations), minor groups end with 000 (e.g., 29-1000, Health Diagnosing and Treating Practitioners), broad occupations end with 0 (e.g., 29-1120, Therapists), and detailed occupations end with a nonzero digit (e.g., 29-1123, Physical Therapists). The hyphen between the second and third digit is used only for presentation clarity.
All residuals ("Other," "Miscellaneous," or "All Other"), whether at the minor group, broad occupation, or detailed occupation level, will contain a 9 at the level of the residual. Minor groups that are major group residuals will end in 9000 (e.g., 11-9000, Other Management Occupations); broad occupations that are minor group residuals will end in 90 (e.g., 11-9190, Miscellaneous Managers); and residual detailed occupations will end in 9 (e.g., 11-9199, Managers, All Other):

11-0000 Management Occupations
  11-9000 Other Management Occupations
  11-9190 Miscellaneous Managers
  11-9199 Managers, All Other

In cases where there are more than 9 broad occupations in a minor group (or more than eight, if there is no residual), the xx-x090 will be skipped (reserved for residuals), the xx-x000 will be skipped (reserved for minor groups), and the numbering system will go to xx-x110. The residual broad occupation will then be xx-x190 or xx-x290 (e.g., 51-9190, Miscellaneous Production Workers).

The 1998 SOC occupational groups and detailed occupations presented in Appendix A are not always consecutively numbered, both to accommodate these coding conventions and to allow for the insertion of additional occupational groups in future revisions of the SOC. In addition, data collection agencies wanting more detail to measure additional worker characteristics can split a defined occupation into more detailed occupations by adding a decimal point and more digits to the SOC code. For example, Secondary School Teachers, Except Special and Vocational Education (25-2031) is a detailed occupation. Agencies wishing to collect more particular information on teachers by subject matter might use 25-2031.1 for secondary school science teachers or 25-2031.12 for secondary school biology teachers. Additional levels of detail also may be used to distinguish workers who have different training, demographic characteristics, or years of experience. It is recommended that users needing extra detail use the structure currently being implemented for the Employment and Training Administration’s O*NET.

Each occupation in the revised SOC will be placed within one of the following 23 major groups:

11-0000 Management Occupations
13-0000 Business and Financial Operations Occupations
15-0000 Computer and Mathematical Occupations
17-0000 Architecture and Engineering Occupations
<table>
<thead>
<tr>
<th>Major Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-0000</td>
<td>Life, Physical, and Social Science Occupations</td>
</tr>
<tr>
<td>21-0000</td>
<td>Community and Social Services Occupations</td>
</tr>
<tr>
<td>23-0000</td>
<td>Legal Occupations</td>
</tr>
<tr>
<td>25-0000</td>
<td>Education, Training, and Library Occupations</td>
</tr>
<tr>
<td>27-0000</td>
<td>Arts, Design, Entertainment, Sports, and Media Occupations</td>
</tr>
<tr>
<td>29-0000</td>
<td>Healthcare Practitioners and Technical Occupations</td>
</tr>
<tr>
<td>31-0000</td>
<td>Healthcare Support Occupations</td>
</tr>
<tr>
<td>33-0000</td>
<td>Protective Service Occupations</td>
</tr>
<tr>
<td>35-0000</td>
<td>Food Preparation and Serving Related Occupations</td>
</tr>
<tr>
<td>37-0000</td>
<td>Building and Grounds Cleaning and Maintenance Occupations</td>
</tr>
<tr>
<td>39-0000</td>
<td>Personal Care and Service Occupations</td>
</tr>
<tr>
<td>41-0000</td>
<td>Sales and Related Occupations</td>
</tr>
<tr>
<td>43-0000</td>
<td>Office and Administrative Support Occupations</td>
</tr>
<tr>
<td>45-0000</td>
<td>Farming, Fishing, and Forestry Occupations</td>
</tr>
<tr>
<td>47-0000</td>
<td>Construction and Extraction Occupations</td>
</tr>
<tr>
<td>49-0000</td>
<td>Installation, Maintenance, and Repair Occupations</td>
</tr>
<tr>
<td>51-0000</td>
<td>Production Occupations</td>
</tr>
<tr>
<td>53-0000</td>
<td>Transportation and Material Moving Occupations</td>
</tr>
<tr>
<td>55-0000</td>
<td>Military Specific Occupations</td>
</tr>
</tbody>
</table>

For users wanting less detail in data tabulations, the SOCRPC suggests combining the 23 major groups into 11, or even 6, groups as presented below.

**Intermediate Level Aggregation (11 groups)**

<table>
<thead>
<tr>
<th>Major Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-0000 – 13-0000</td>
<td>Management, Business, and Financial Occupations</td>
</tr>
<tr>
<td>15-0000 – 29-0000</td>
<td>Professional and Related Occupations</td>
</tr>
<tr>
<td>31-0000 – 39-0000</td>
<td>Service Occupations</td>
</tr>
<tr>
<td>41-0000</td>
<td>Sales and Related Occupations</td>
</tr>
<tr>
<td>43-0000</td>
<td>Office and Administrative Support Occupations</td>
</tr>
<tr>
<td>45-0000</td>
<td>Farming, Fishing, and Forestry Occupations</td>
</tr>
<tr>
<td>47-0000</td>
<td>Construction and Extraction Occupations</td>
</tr>
<tr>
<td>49-0000</td>
<td>Installation, Maintenance, and Repair Occupations</td>
</tr>
<tr>
<td>51-0000</td>
<td>Production Occupations</td>
</tr>
<tr>
<td>53-0000</td>
<td>Transportation and Material Moving Occupations</td>
</tr>
<tr>
<td>55-0000</td>
<td>Military Specific Occupations</td>
</tr>
</tbody>
</table>

**High Level Aggregation (6 groups)**

<table>
<thead>
<tr>
<th>Major Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-0000 – 29-0000</td>
<td>Management, Professional, and Related Occupations</td>
</tr>
</tbody>
</table>
Significant Changes and Responses to Comments. In response to public comments received on the August 5, 1998, Federal Register notice (63 FR 41895-41923), OMB, in consultation with the SOCRPC, revised the SOCRPC’s final recommendations by adding a few occupations, mostly in the gaming occupations (to reflect their growth) and the primary and secondary teaching occupations (to distinguish further special and vocational education teachers); changing some occupational titles; and making necessary renumbering changes. These changes are reflected in the listing of the 1998 SOC presented in Appendix A. New broad occupations added include the following:

11-9070 Gaming Managers
25-2010 Preschool and Kindergarten Teachers
25-2020 Elementary and Middle School Teachers
25-2030 Secondary School Teachers
33-9030 Security Guards and Gaming Surveillance Officers

New detailed occupations added include the following:

11-9071 Gaming Managers
25-1194 Vocational Education Teachers, Postsecondary
25-2011 Preschool Teachers, Except Special Education
25-2012 Kindergarten Teachers, Except Special Education
25-2021 Elementary School Teachers, Except Special Education
25-2022 Middle School Teachers, Except Special and Vocational Education
25-2023 Vocational Education Teachers, Middle School
25-2031 Secondary School Teachers, Except Special and Vocational Education
25-2032 Vocational Education Teachers, Secondary School
25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School
25-2042 Special Education Teachers, Middle School
25-2043 Special Education Teachers, Secondary School
27-4011 Audio and Video Equipment Technicians
33-9031 Gaming Surveillance Officers and Gaming Investigators
Next Steps in Process

Implementation of the 1998 SOC. The SOCRPC is preparing the 1998 Standard Occupational Classification Manual for publication. Committee members have completed definitions and assigned associated titles, while agencies with occupational classification systems are developing crosswalks from their existing systems to the 1998 SOC. The SOCRPC will consult periodically to ensure that the implementation of the 1998 SOC is comparable across Federal agencies. This consultation will include regularly scheduled interagency communication to ensure that there is a smooth Federal transition to the 1998 SOC. It is anticipated that the next major review and revision of the SOC will begin in 2005 in preparation for use in the 2010 Decennial Census.

All Federal Government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years. The following implementation schedule will be used by the Bureau of Labor Statistics and the Bureau of the Census – the agencies with the most comprehensive occupational data collection systems.


The Office of Employment Projections also produces the Occupational Outlook Handbook, which is among the most widely used career guidance resources in the Nation, and related publications based on the Bureau’s biennial employment projections.
Occupational definitions and data completely based on the 1998 SOC will be incorporated for the first time in the 2004–05 edition of the *Handbook*, which is expected to be published in early 2004.

*Bureau of the Census.* Data collected by the 2000 Census of Population will be coded to the 1998 SOC and published in 2002. Data from the Current Population Survey will be based on the new classification for the first time in 2003.

**Where to Find More Information.** The complete occupational structure of the 1998 SOC will be contained in Bureau of Labor Statistics Report 929, forthcoming. The final 1998 SOC ultimately will be published in a two-volume *1998 Standard Occupational Classification Manual*. Volume I will contain the hierarchical structure, a complete list of occupational titles and their definitions, a description of the SOC revision process, and a section on frequently asked questions. Volume II will contain a list of some 30,000 job titles that are commonly used by individuals and establishments when reporting employment by occupation with their corresponding SOC codes. The second volume also will include an alphabetical index of all associated titles and industries and will reference them to the occupations in which they are found. Volumes I and II of the 1998 SOC also will be available at the following Internet address:

http://stats.bls.gov/soc/soc_home.htm

O*NET, the Occupational Information Network of the Employment and Training Administration, adheres to the 1998 SOC. Information on this occupational classification system appears in “Replace with a Database: O*NET Replaces the Dictionary of Occupational Titles,” *Occupational Outlook Quarterly* (Bureau of Labor Statistics, Spring 1999). O*NET also may be accessed at the following Internet address:

http://www.doleta.gov/programs/onet

The 1998 SOC will be incorporated into the *Occupational Outlook Handbook* and the Bureau of Labor Statistics industry-occupation matrix. Both the *Handbook* and matrix can be accessed at the following Internet address:

http://stats.bls.gov/emphome.htm

To facilitate historical comparisons, the Bureau of Labor Statistics will develop a crosswalk showing the relationship between occupations in the 1998 SOC and the 1997 Occupational Employment Statistics survey. The Bureau of the Census also is developing a crosswalk showing the relationship between the occupations in the 1998 SOC and those of the 1990 and 2000 Censuses. This crosswalk will be available at the following Bureau of the Census Internet address:
http://www.census.gov/hhes/www/occupation.html

**Standard Occupational Classification Policy Committee.** It has been eighteen years since the last revision of the SOC. OMB plans to establish a new standing committee, the Standard Occupational Classification Policy Committee (SOCPC), to ensure that the successful efforts of the SOCRPC continue and that the 1998 SOC remains appropriate to the world of work. The new committee will meet twice per year to perform SOC maintenance functions, such as recommending changes in the SOC occupational definitions and placement of new occupations. In addition, it will provide timely advice to the Bureau of the Census during its 2000 Census occupation coding operation, particularly with respect to the proper classification of unfamiliar job descriptions and job titles. The committee will also undertake a thorough review of the entire SOC once per decade, in conjunction with preparations for the decennial census. The next major review and revision of the SOC is expected to begin in 2005 in preparation for use in the 2010 Decennial Census.

It is anticipated that the SOCPC will consist of representatives of the following agencies:

- Department of Commerce, Bureau of the Census
- Department of Defense, Defense Manpower Data Center
- Department of Education
- Department of Health and Human Services, Bureau of Health Professions
- Department of Labor, Bureau of Labor Statistics
- Department of Labor, Employment and Training Administration
- Equal Employment Opportunity Commission
- National Occupational Information Coordinating Committee
- National Science Foundation
- Office of Management and Budget (*ex-officio*)
- Office of Personnel Management

The Bureau of Labor Statistics will chair the committee and staff its secretariat which will carry out the day-to-day work of the SOCPC, such as organizing working groups to make recommendations for changes.

**Nonstatistical Uses of the SOC.** The 1998 SOC was designed, as was the 1980 SOC, solely for statistical purposes. Although it is likely that the 1998 SOC, like the 1980 SOC, will also be used for various nonstatistical purposes (e.g., for administrative, regulatory, or taxation functions), the requirements of government agencies that choose to use the 1998 SOC for nonstatistical purposes have played no role in its development, nor will OMB modify the classification to meet the requirements of any nonstatistical program.
Consequently, as has been the case with the 1980 SOC (Statistical Policy Directive No. 10, Standard Occupational Classification), the 1998 SOC is not to be used in any administrative, regulatory, or tax program unless the head of the agency administering that program has first determined that the use of such occupational definitions is appropriate to the implementation of the program’s objectives. If the terms, “Standard Occupational Classification” or “SOC” are to be used in the operative text of any law or regulation to define an occupation or group of occupations, language similar to the following should be used to ensure sufficient flexibility: "An occupation or grouping of occupations shall mean a Standard Occupational Classification detailed occupation or grouping of occupations as defined by the Office of Management and Budget, subject to such modifications with respect to individual occupations or groupings of occupations as the Secretary (Administrator) may determine to be appropriate for the purpose of this Act (regulation).”

In addition, if an agency decides to require its respondents to provide an SOC code for a nonstatistical purpose, the agency needs to have trained personnel available to answer the respondent’s questions and otherwise assist them in providing the appropriate SOC codes.

**John T. Spotila**

*Administrator,*

*Office of Information and Regulatory Affairs.*
### APPENDIX A: 1998 SOC Occupations and Structure

**11-0000 Management Occupations**

- **11-1000 Top Executives**
  - **11-1010 Chief Executives**
    - **11-1011 Chief Executives**
  - **11-1020 General and Operations Managers**
    - **11-1021 General and Operations Managers**
  - **11-1030 Legislators**
    - **11-1031 Legislators**

- **11-2000 Advertising, Marketing, Promotions, Public Relations, and Sales Managers**
  - **11-2010 Advertising and Promotions Managers**
    - **11-2011 Advertising and Promotions Managers**
  - **11-2020 Marketing and Sales Managers**
    - **11-2021 Marketing Managers**
    - **11-2022 Sales Managers**
  - **11-2030 Public Relations Managers**
    - **11-2031 Public Relations Managers**

- **11-3000 Operations Specialties Managers**
  - **11-3010 Administrative Services Managers**
    - **11-3011 Administrative Services Managers**
  - **11-3020 Computer and Information Systems Managers**
    - **11-3021 Computer and Information Systems Managers**
  - **11-3030 Financial Managers**
    - **11-3031 Financial Managers**
  - **11-3040 Human Resources Managers**
    - **11-3041 Compensation and Benefits Managers**
    - **11-3042 Training and Development Managers**
    - **11-3049 Human Resources Managers, All Other**
  - **11-3050 Industrial Production Managers**
    - **11-3051 Industrial Production Managers**
  - **11-3060 Purchasing Managers**
    - **11-3061 Purchasing Managers**
  - **11-3070 Transportation, Storage, and Distribution Managers**
    - **11-3071 Transportation, Storage, and Distribution Managers**
11-9000 Other Management Occupations
  11-9010 Agricultural Managers
    11-9011 Farm, Ranch, and Other Agricultural Managers
    11-9012 Farmers and Ranchers
  11-9020 Construction Managers
    11-9021 Construction Managers
  11-9030 Education Administrators
    11-9031 Education Administrators, Preschool and Child Care Center/Program
    11-9032 Education Administrators, Elementary and Secondary School
    11-9033 Education Administrators, Postsecondary
    11-9039 Education Administrators, All Other
  11-9040 Engineering Managers
    11-9041 Engineering Managers
  11-9050 Food Service Managers
    11-9051 Food Service Managers
  11-9060 Funeral Directors
    11-9061 Funeral Directors
  11-9070 Gaming Managers
    11-9071 Gaming Managers
  11-9080 Lodging Managers
    11-9081 Lodging Managers
  11-9110 Medical and Health Services Managers
    11-9111 Medical and Health Services Managers
  11-9120 Natural Sciences Managers
    11-9121 Natural Sciences Managers
  11-9130 Postmasters and Mail Superintendents
    11-9131 Postmasters and Mail Superintendents
  11-9140 Property, Real Estate, and Community Association Managers
    11-9141 Property, Real Estate, and Community Association Managers
  11-9150 Social and Community Service Managers
    11-9151 Social and Community Service Managers
  11-9190 Miscellaneous Managers
11-9199 Managers, All Other

13-0000 Business and Financial Operations Occupations
   13-1000 Business Operations Specialists
      13-1010 Agents and Business Managers of Artists, Performers, and Athletes
      13-1011 Agents and Business Managers of Artists, Performers, and Athletes

13-1020 Buyers and Purchasing Agents
   13-1021 Purchasing Agents and Buyers, Farm Products

13-1022 Wholesale and Retail Buyers, Except Farm Products

13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products

13-1030 Claims Adjusters, Appraisers, Examiners, and Investigators
   13-1031 Claims Adjusters, Examiners, and Investigators

   13-1032 Insurance Appraisers, Auto Damage

13-1040 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
   13-1041 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation

13-1050 Cost Estimators
   13-1051 Cost Estimators

13-1060 Emergency Management Specialists
   13-1061 Emergency Management Specialists

13-1070 Human Resources, Training, and Labor Relations Specialists
   13-1071 Employment, Recruitment, and Placement Specialists

   13-1072 Compensation, Benefits, and Job Analysis Specialists

   13-1073 Training and Development Specialists

   13-1079 Human Resources, Training, and Labor Relations Specialists, All Other

13-1080 Logisticians
   13-1081 Logisticians

13-1100 Management Analysts
   13-1111 Management Analysts

13-1120 Meeting and Convention Planners
   13-1121 Meeting and Convention Planners

13-1190 Miscellaneous Business Operations Specialists
13-1199  Business Operations Specialists, All Other

13-2000  Financial Specialists
   13-2010  Accountants and Auditors
      13-2011  Accountants and Auditors
   13-2020  Appraisers and Assessors of Real Estate
      13-2021  Appraisers and Assessors of Real Estate
   13-2030  Budget Analysts
      13-2031  Budget Analysts
   13-2040  Credit Analysts
      13-2041  Credit Analysts
   13-2050  Financial Analysts and Advisors
      13-2051  Financial Analysts
      13-2052  Personal Financial Advisors
      13-2053  Insurance Underwriters
   13-2060  Financial Examiners
      13-2061  Financial Examiners
   13-2070  Loan Counselors and Officers
      13-2071  Loan Counselors
      13-2072  Loan Officers
   13-2080  Tax Examiners, Collectors, Preparers, and Revenue Agents
      13-2081  Tax Examiners, Collectors, and Revenue Agents
      13-2082  Tax Preparers
   13-2090  Miscellaneous Financial Specialists
      13-2099  Financial Specialists, All Other

15-0000  Computer and Mathematical Occupations
   15-1000  Computer Specialists
      15-1010  Computer and Information Scientists, Research
      15-1011  Computer and Information Scientists, Research
   15-1020  Computer Programmers
      15-1021  Computer Programmers
   15-1030  Computer Software Engineers
      15-1031  Computer Software Engineers, Applications
| 15-1032 | Computer Software Engineers, Systems Software |
| 15-1040 | Computer Support Specialists |
| 15-1041 | Computer Support Specialists |
| 15-1050 | Computer Systems Analysts |
| 15-1051 | Computer Systems Analysts |
| 15-1060 | Database Administrators |
| 15-1061 | Database Administrators |
| 15-1070 | Network and Computer Systems Administrators |
| 15-1071 | Network and Computer Systems Administrators |
| 15-1080 | Network Systems and Data Communications Analysts |
| 15-1081 | Network Systems and Data Communications Analysts |
| 15-1090 | Miscellaneous Computer Specialists |
| 15-1099 | Computer Specialists, All Other |

| 15-2000 | Mathematical Scientists |
| 15-2010 | Actuaries |
| 15-2011 | Actuaries |
| 15-2020 | Mathematicians |
| 15-2021 | Mathematicians |
| 15-2030 | Operations Research Analysts |
| 15-2031 | Operations Research Analysts |
| 15-2040 | Statisticians |
| 15-2041 | Statisticians |
| 15-2090 | Miscellaneous Mathematical Scientists |
| 15-2099 | Mathematical Scientists, All Other |

| 15-3000 | Mathematical Technicians |
| 15-3010 | Mathematical Technicians |
| 15-3011 | Mathematical Technicians |

| 17-0000 | Architecture and Engineering Occupations |
| 17-1000 | Architects, Surveyors, and Cartographers |
| 17-1010 | Architects, Except Naval |
| 17-1011 | Architects, Except Landscape and Naval |
| 17-1012 | Landscape Architects |
| 17-1020 | Surveyors, Cartographers, and Photogrammetrists |
| 17-1021 | Cartographers and Photogrammetrists |
17-1022 Surveyors

17-2000 Engineers
   17-2010 Aerospace Engineers
      17-2011 Aerospace Engineers

   17-2020 Agricultural Engineers
      17-2021 Agricultural Engineers

   17-2030 Biomedical Engineers
      17-2031 Biomedical Engineers

   17-2040 Chemical Engineers
      17-2041 Chemical Engineers

   17-2050 Civil Engineers
      17-2051 Civil Engineers

   17-2060 Computer Hardware Engineers
      17-2061 Computer Hardware Engineers

   17-2070 Electrical and Electronics Engineers
      17-2071 Electrical Engineers

      17-2072 Electronics Engineers, Except Computer

   17-2080 Environmental Engineers
      17-2081 Environmental Engineers

   17-2110 Industrial Engineers, Including Health and Safety
      17-2111 Health and Safety Engineers, Except Mining Safety Engineers and
              Inspectors

      17-2112 Industrial Engineers

   17-2120 Marine Engineers and Naval Architects
      17-2121 Marine Engineers and Naval Architects

   17-2130 Materials Engineers
      17-2131 Materials Engineers

   17-2140 Mechanical Engineers
      17-2141 Mechanical Engineers

   17-2150 Mining and Geological Engineers, Including Mining Safety Engineers
      17-2151 Mining and Geological Engineers, Including Mining Safety Engineers

   17-2160 Nuclear Engineers
      17-2161 Nuclear Engineers
17-2170 Petroleum Engineers
  17-2171 Petroleum Engineers

17-2190 Miscellaneous Engineers
  17-2199 Engineers, All Other

17-3000 Drafters, Engineering, and Mapping Technicians
  17-3010 Drafters
    17-3011 Architectural and Civil Drafters
    17-3012 Electrical and Electronics Drafters
    17-3013 Mechanical Drafters
    17-3019 Drafters, All Other

17-3020 Engineering Technicians, Except Drafters
  17-3021 Aerospace Engineering and Operations Technicians
  17-3022 Civil Engineering Technicians
  17-3023 Electrical and Electronic Engineering Technicians
  17-3024 Electro-Mechanical Technicians
  17-3025 Environmental Engineering Technicians
  17-3026 Industrial Engineering Technicians
  17-3027 Mechanical Engineering Technicians
  17-3029 Engineering Technicians, Except Drafters, All Other

17-3030 Surveying and Mapping Technicians
  17-3031 Surveying and Mapping Technicians

19-0000 Life, Physical, and Social Science Occupations
  19-1000 Life Scientists
    19-1010 Agricultural and Food Scientists
      19-1011 Animal Scientists
    19-1012 Food Scientists and Technologists
    19-1013 Soil and Plant Scientists

  19-1020 Biological Scientists
    19-1021 Biochemists and Biophysicists
    19-1022 Microbiologists
19-1023 Zoologists and Wildlife Biologists
19-1029 Biological Scientists, All Other
19-1030 Conservation Scientists and Foresters
   19-1031 Conservation Scientists
   19-1032 Foresters
19-1040 Medical Scientists
   19-1041 Epidemiologists
   19-1042 Medical Scientists, Except Epidemiologists
19-1090 Miscellaneous Life Scientists
   19-1099 Life Scientists, All Other
19-2000 Physical Scientists
   19-2010 Astronomers and Physicists
      19-2011 Astronomers
      19-2012 Physicists
   19-2020 Atmospheric and Space Scientists
      19-2021 Atmospheric and Space Scientists
   19-2030 Chemists and Materials Scientists
      19-2031 Chemists
      19-2032 Materials Scientists
   19-2040 Environmental Scientists and Geoscientists
      19-2041 Environmental Scientists and Specialists, Including Health
      19-2042 Geoscientists, Except Hydrologists and Geographers
      19-2043 Hydrologists
   19-2090 Miscellaneous Physical Scientists
      19-2099 Physical Scientists, All Other
19-3000 Social Scientists and Related Workers
   19-3010 Economists
      19-3011 Economists
   19-3020 Market and Survey Researchers
      19-3021 Market Research Analysts
      19-3022 Survey Researchers
19-3030 Psychologists
  19-3031 Clinical, Counseling, and School Psychologists
  19-3032 Industrial-Organizational Psychologists
  19-3039 Psychologists, All Other

19-3040 Sociologists
  19-3041 Sociologists

19-3050 Urban and Regional Planners
  19-3051 Urban and Regional Planners

19-3090 Miscellaneous Social Scientists and Related Workers
  19-3091 Anthropologists and Archeologists
  19-3092 Geographers
  19-3093 Historians
  19-3094 Political Scientists
  19-3099 Social Scientists and Related Workers, All Other

19-4000 Life, Physical, and Social Science Technicians
  19-4010 Agricultural and Food Science Technicians
    19-4011 Agricultural and Food Science Technicians
  19-4020 Biological Technicians
    19-4021 Biological Technicians
  19-4030 Chemical Technicians
    19-4031 Chemical Technicians
  19-4040 Geological and Petroleum Technicians
    19-4041 Geological and Petroleum Technicians
  19-4050 Nuclear Technicians
    19-4051 Nuclear Technicians
  19-4060 Social Science Research Assistants
    19-4061 Social Science Research Assistants
  19-4090 Miscellaneous Life, Physical, and Social Science Technicians
    19-4091 Environmental Science and Protection Technicians, Including Health
    19-4092 Forensic Science Technicians
    19-4093 Forest and Conservation Technicians
19-4999  Life, Physical, and Social Science Technicians, All Other

21-0000  Community and Social Services Occupations
   21-1000  Counselors, Social Workers, and Other Community and Social Service Specialists
      21-1010  Counselors
         21-1011  Substance Abuse and Behavioral Disorder Counselors
         21-1012  Educational, Vocational, and School Counselors
         21-1013  Marriage and Family Therapists
         21-1014  Mental Health Counselors
         21-1015  Rehabilitation Counselors
         21-1019  Counselors, All Other
      21-1020  Social Workers
         21-1021  Child, Family, and School Social Workers
         21-1022  Medical and Public Health Social Workers
         21-1023  Mental Health and Substance Abuse Social Workers
         21-1029  Social Workers, All Other
      21-1090  Miscellaneous Community and Social Service Specialists
         21-1091  Health Educators
         21-1092  Probation Officers and Correctional Treatment Specialists
         21-1093  Social and Human Service Assistants
         21-1099  Community and Social Service Specialists, All Other
   21-2000  Religious Workers
      21-2010  Clergy
         21-2011  Clergy
      21-2020  Directors, Religious Activities and Education
         21-2021  Directors, Religious Activities and Education
      21-2090  Miscellaneous Religious Workers
         21-2099  Religious Workers, All Other
   23-0000  Legal Occupations
      23-1000  Lawyers, Judges, and Related Workers
         23-1010  Lawyers
            23-1011  Lawyers
         23-1020  Judges, Magistrates, and Other Judicial Workers
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
23-1022 Arbitrators, Mediators, and Conciliators
23-1023 Judges, Magistrate Judges, and Magistrates

23-2000 Legal Support Workers
23-2010 Paralegals and Legal Assistants
23-2011 Paralegals and Legal Assistants

23-2090 Miscellaneous Legal Support Workers
23-2091 Court Reporters
23-2092 Law Clerks
23-2093 Title Examiners, Abstractors, and Searchers
23-2099 Legal Support Workers, All Other

25-0000 Education, Training, and Library Occupations
25-1000 Postsecondary Teachers
25-1010 Business Teachers, Postsecondary
25-1011 Business Teachers, Postsecondary

25-1020 Math and Computer Teachers, Postsecondary
25-1021 Computer Science Teachers, Postsecondary
25-1022 Mathematical Science Teachers, Postsecondary

25-1030 Engineering and Architecture Teachers, Postsecondary
25-1031 Architecture Teachers, Postsecondary
25-1032 Engineering Teachers, Postsecondary

25-1040 Life Sciences Teachers, Postsecondary
25-1041 Agricultural Sciences Teachers, Postsecondary
25-1042 Biological Science Teachers, Postsecondary
25-1043 Forestry and Conservation Science Teachers, Postsecondary

25-1050 Physical Sciences Teachers, Postsecondary
25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
25-1052 Chemistry Teachers, Postsecondary
25-1053 Environmental Science Teachers, Postsecondary
25-1054 Physics Teachers, Postsecondary
25-1060 Social Sciences Teachers, Postsecondary
   25-1061 Anthropology and Archeology Teachers, Postsecondary
25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1063 Economics Teachers, Postsecondary
25-1064 Geography Teachers, Postsecondary
25-1065 Political Science Teachers, Postsecondary
25-1066 Psychology Teachers, Postsecondary
25-1067 Sociology Teachers, Postsecondary
25-1069 Social Sciences Teachers, Postsecondary, All Other
25-1070 Health Teachers, Postsecondary
   25-1071 Health Specialties Teachers, Postsecondary
   25-1072 Nursing Instructors and Teachers, Postsecondary
25-1080 Education and Library Science Teachers, Postsecondary
   25-1081 Education Teachers, Postsecondary
   25-1082 Library Science Teachers, Postsecondary
25-1110 Law, Criminal Justice, and Social Work Teachers, Postsecondary
   25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary
   25-1112 Law Teachers, Postsecondary
   25-1113 Social Work Teachers, Postsecondary
25-1120 Arts, Communications, and Humanities Teachers, Postsecondary
   25-1121 Art, Drama, and Music Teachers, Postsecondary
   25-1122 Communications Teachers, Postsecondary
   25-1123 English Language and Literature Teachers, Postsecondary
   25-1124 Foreign Language and Literature Teachers, Postsecondary
   25-1125 History Teachers, Postsecondary
   25-1126 Philosophy and Religion Teachers, Postsecondary
25-1190 Miscellaneous Postsecondary Teachers
   25-1191 Graduate Teaching Assistants
25-1192 Home Economics Teachers, Postsecondary
25-1193 Recreation and Fitness Studies Teachers, Postsecondary
25-1194 Vocational Education Teachers Postsecondary
25-1199 Postsecondary Teachers, All Other

25-2000 Teachers, Primary, Secondary, and Special Education
25-2010 Preschool and Kindergarten Teachers
25-2011 Preschool Teachers, Except Special Education
25-2012 Kindergarten Teachers, Except Special Education

25-2020 Elementary and Middle School Teachers
25-2021 Elementary School Teachers, Except Special Education
25-2022 Middle School Teachers, Except Special and Vocational Education
25-2023 Middle School Vocational Education Teachers

25-2030 Secondary School Teachers
25-2031 Secondary School Teachers, Except Special and Vocational Education
25-2032 Secondary School, Vocational Education Teachers

25-2040 Special Education Teachers
25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School
25-2042 Special Education Teachers, Middle School
25-2043 Special Education Teachers, Secondary School

25-3000 Other Teachers and Instructors
25-3010 Adult Literacy, Remedial Education, and GED Teachers and Instructors
25-3011 Adult Literacy, Remedial Education, and GED Teachers and Instructors

25-3020 Self-Enrichment Education Teachers
25-3021 Self-Enrichment Education Teachers

25-3090 Miscellaneous Teachers and Instructors
25-3099 Teachers and Instructors, All Other

25-4000 Librarians, Curators, and Archivists
25-4010 Archivists, Curators, and Museum Technicians
25-4011 Archivists
25-4012 Curators
25-4013 Museum Technicians and Conservators

25-4020 Librarians
   25-4021 Librarians

25-4030 Library Technicians
   25-4031 Library Technicians

25-9000 Other Education, Training, and Library Occupations
   25-9010 Audio-Visual Collections Specialists
      25-9011 Audio-Visual Collections Specialists

25-9020 Farm and Home Management Advisors
   25-9021 Farm and Home Management Advisors

25-9030 Instructional Coordinators
   25-9031 Instructional Coordinators

25-9040 Teacher Assistants
   25-9041 Teacher Assistants

25-9090 Miscellaneous Education, Training, and Library Workers
   25-9099 Education, Training, and Library Workers, All Other

27-0000 Arts, Design, Entertainment, Sports, and Media Occupations
   27-1000 Art and Design Workers
      27-1010 Artists and Related Workers
         27-1011 Art Directors

      27-1012 Craft Artists

      27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators

      27-1014 Multi-Media Artists and Animators

      27-1019 Artists and Related Workers, All Other

   27-1020 Designers
      27-1021 Commercial and Industrial Designers

      27-1022 Fashion Designers

      27-1023 Floral Designers

      27-1024 Graphic Designers

      27-1025 Interior Designers

      27-1026 Merchandise Displayers and Window Trimmers
27-1027 Set and Exhibit Designers

27-1029 Designers, All Other

27-2000 Entertainers and Performers, Sports and Related Workers
  27-2010 Actors, Producers, and Directors
    27-2011 Actors
    27-2012 Producers and Directors
  27-2020 Athletes, Coaches, Umpires, and Related Workers
    27-2021 Athletes and Sports Competitors
    27-2022 Coaches and Scouts
    27-2023 Umpires, Referees, and Other Sports Officials
  27-2030 Dancers and Choreographers
    27-2031 Dancers
    27-2032 Choreographers
  27-2040 Musicians, Singers, and Related Workers
    27-2041 Music Directors and Composers
    27-2042 Musicians and Singers
  27-2090 Miscellaneous Entertainers and Performers, Sports and Related Workers
    27-2099 Entertainers and Performers, Sports and Related Workers, All Other

27-3000 Media and Communication Workers
  27-3010 Announcers
    27-3011 Radio and Television Announcers
    27-3012 Public Address System and Other Announcers
  27-3020 News Analysts, Reporters and Correspondents
    27-3021 Broadcast News Analysts
    27-3022 Reporters and Correspondents
  27-3030 Public Relations Specialists
    27-3031 Public Relations Specialists
  27-3040 Writers and Editors
    27-3041 Editors
    27-3042 Technical Writers
27-3043  Writers and Authors

27-3090  Miscellaneous Media and Communication Workers
       27-3091  Interpreters and Translators
       27-3099  Media and Communication Workers, All Other

27-4000  Media and Communication Equipment Workers
       27-4010  Broadcast and Sound Engineering Technicians and Radio Operators
              27-4011  Audio and Video Equipment Technicians
       27-4012  Broadcast Technicians
       27-4013  Radio Operators
       27-4014  Sound Engineering Technicians

27-4020  Photographers
       27-4021  Photographers

27-4030  Television, Video, and Motion Picture Camera Operators and Editors
       27-4031  Camera Operators, Television, Video, and Motion Picture

27-4090  Miscellaneous Media and Communication Equipment Workers
       27-4099  Media and Communication Equipment Workers, All Other

29-0000  Healthcare Practitioners and Technical Occupations
       29-1000  Health Diagnosing and Treating Practitioners
              29-1010  Chiropractors
              29-1011  Chiropractors

       29-1020  Dentists
              29-1021  Dentists, General
              29-1022  Oral and Maxillofacial Surgeons

       29-1030  Dietitians and Nutritionists
              29-1031  Dietitians and Nutritionists

       29-1040  Optometrists
              29-1041  Optometrists
29-1050 Pharmacists
  29-1051 Pharmacists

29-1060 Physicians and Surgeons
  29-1061 Anesthesiologists

  29-1062 Family and General Practitioners
  29-1063 Internists, General
  29-1064 Obstetricians and Gynecologists
  29-1065 Pediatricians, General
  29-1066 Psychiatrists
  29-1067 Surgeons
  29-1069 Physicians and Surgeons, All Other

29-1070 Physician Assistants
  29-1071 Physician Assistants

29-1080 Podiatrists
  29-1081 Podiatrists

29-1110 Registered Nurses
  29-1111 Registered Nurses

29-1120 Therapists
  29-1121 Audiologists

    29-1122 Occupational Therapists
    29-1123 Physical Therapists
    29-1124 Radiation Therapists
    29-1125 Recreational Therapists
    29-1126 Respiratory Therapists
    29-1127 Speech-Language Pathologists
    29-1129 Therapists, All Other

29-1130 Veterinarians
  29-1131 Veterinarians

29-1190 Miscellaneous Health Diagnosing and Treating Practitioners
29-1199  Health Diagnosing and Treating Practitioners, All Other

29-2000  Health Technologists and Technicians
  29-2010  Clinical Laboratory Technologists and Technicians
  29-2011  Medical and Clinical Laboratory Technologists

  29-2012  Medical and Clinical Laboratory Technicians

29-2020  Dental Hygienists
  29-2021  Dental Hygienists

29-2030  Diagnostic Related Technologists and Technicians
  29-2031  Cardiovascular Technologists and Technicians

  29-2032  Diagnostic Medical Sonographers

  29-2033  Nuclear Medicine Technologists

  29-2034  Radiologic Technologists and Technicians

29-2040  Emergency Medical Technicians and Paramedics
  29-2041  Emergency Medical Technicians and Paramedics

29-2050  Health Diagnosing and Treating Practitioner Support Technicians
  29-2051  Dietetic Technicians

  29-2052  Pharmacy Technicians

  29-2053  Psychiatric Technicians

  29-2054  Respiratory Therapy Technicians

  29-2055  Surgical Technologists

  29-2056  Veterinary Technologists and Technicians

29-2060  Licensed Practical and Licensed Vocational Nurses
  29-2061  Licensed Practical and Licensed Vocational Nurses

29-2070  Medical Records and Health Information Technicians
  29-2071  Medical Records and Health Information Technicians

29-2080  Opticians, Dispensing
  29-2081  Opticians, Dispensing

29-2090  Miscellaneous Health Technologists and Technicians
  29-2091  Orthotists and Prosthetists

  29-2099  Health Technologists and Technicians, All Other
29-9000  Other Healthcare Practitioners and Technical Occupations
   29-9010  Occupational Health and Safety Specialists and Technicians
      29-9011  Occupational Health and Safety Specialists
      29-9012  Occupational Health and Safety Technicians
   29-9090  Miscellaneous Health Practitioners and Technical Workers
      29-9091  Athletic Trainers
      29-9099  Healthcare Practitioners and Technical Workers, All Other

31-0000  Healthcare Support Occupations
   31-1000  Nursing, Psychiatric, and Home Health Aides
      31-1010  Nursing, Psychiatric, and Home Health Aides
      31-1011  Home Health Aides
      31-1012  Nursing Aides, Orderlies, and Attendants
      31-1013  Psychiatric Aides
   31-2000  Occupational and Physical Therapist Assistants and Aides
      31-2010  Occupational Therapist Assistants and Aides
      31-2011  Occupational Therapist Assistants
      31-2012  Occupational Therapist Aides
      31-2020  Physical Therapist Assistants and Aides
      31-2021  Physical Therapist Assistants
      31-2022  Physical Therapist Aides
   31-9000  Other Healthcare Support Occupations
      31-9010  Massage Therapists
      31-9011  Massage Therapists
      31-9090  Miscellaneous Healthcare Support Occupations
      31-9091  Dental Assistants
      31-9092  Medical Assistants
      31-9093  Medical Equipment Preparers
      31-9094  Medical Transcriptionists
      31-9095  Pharmacy Aides
      31-9096  Veterinary Assistants and Laboratory Animal Caretakers
      31-9099  Healthcare Support Workers, All Other

33
33-0000  Protective Service Occupations
  33-1000  Supervisors, Protective Service Workers
    33-1010  First-Line Supervisors/Managers, Law Enforcement Workers
    33-1011  First-Line Supervisors/Managers of Correctional Officers
    33-1012  First-Line Supervisors/Managers of Police and Detectives
  33-1020  First-Line Supervisors/Managers, Fire Fighting and Prevention Workers
    33-1021  First-Line Supervisors/Managers of Fire Fighting and Prevention Workers
  33-1090  Miscellaneous Supervisors, Protective Service Workers
    33-1099  Supervisors, Protective Service Workers, All Other

33-2000  Fire Fighting and Prevention Workers
  33-2010  Fire Fighters
    33-2011  Fire Fighters
  33-2020  Fire Inspectors
    33-2021  Fire Inspectors and Investigators
    33-2022  Forest Fire Inspectors and Prevention Specialists

33-3000  Law Enforcement Workers
  33-3010  Bailiffs, Correctional Officers, and Jailers
    33-3011  Bailiffs
    33-3012  Correctional Officers and Jailers
  33-3020  Detectives and Criminal Investigators
    33-3021  Detectives and Criminal Investigators
  33-3030  Fish and Game Wardens
    33-3031  Fish and Game Wardens
  33-3040  Parking Enforcement Workers
    33-3041  Parking Enforcement Workers

33-3050  Police Officers
  33-3051  Police and Sheriff's Patrol Officers
  33-3052  Transit and Railroad Police

33-9000  Other Protective Service Workers
  33-9010  Animal Control Workers
    33-9011  Animal Control Workers
  33-9020  Private Detectives and Investigators
    33-9021  Private Detectives and Investigators
  33-9030  Security Guards and Gaming Surveillance Officers

34
35-9031  Gaming Surveillance Officers and Gaming Investigators
33-9032  Security Guards
33-9090  Miscellaneous Protective Service Workers
  33-9091  Crossing Guards
  33-9092  Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
  33-9099  Protective Service Workers, All Other

35-0000  Food Preparation and Serving Related Occupations
  35-1000  Supervisors, Food Preparation and Serving Workers
    35-1010  First-Line Supervisors/Managers, Food Preparation and Serving Workers
    35-1011  Chefs and Head Cooks
    35-1012  First-Line Supervisors/Managers of Food Preparation and Serving Workers
  35-2000  Cooks and Food Preparation Workers
    35-2010  Cooks
      35-2011  Cooks, Fast Food
    35-2012  Cooks, Institution and Cafeteria
    35-2013  Cooks, Private Household
    35-2014  Cooks, Restaurant
    35-2015  Cooks, Short Order
    35-2019  Cooks, All Other
  35-2020  Food Preparation Workers
    35-2021  Food Preparation Workers
  35-3000  Food and Beverage Serving Workers
    35-3010  Bartenders
    35-3011  Bartenders
    35-3020  Fast Food and Counter Workers
      35-3021  Combined Food Preparation and Serving Workers, Including Fast Food
      35-3022  Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
  35-3030  Waiters and Waitresses
    35-3031  Waiters and Waitresses
  35-3040  Food Servers, Nonrestaurant
    35-3041  Food Servers, Nonrestaurant
### 35-0000 Other Food Preparation and Serving Related Workers
- **35-9000** Other Food Preparation and Serving Related Workers
  - **35-9010** Dining Room and Cafeteria Attendants and Bartender Helpers
    - **35-9011** Dining Room and Cafeteria Attendants and Bartender Helpers
  - **35-9020** Dishwashers
    - **35-9021** Dishwashers
  - **35-9030** Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
    - **35-9031** Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
  - **35-9090** Miscellaneous Food Preparation and Serving Related Workers
    - **35-9099** Food Preparation and Serving Related Workers, All Other

### 37-0000 Building and Grounds Cleaning and Maintenance Occupations
- **37-1000** Supervisors, Building and Grounds Cleaning and Maintenance Workers
  - **37-1010** First-Line Supervisors/Managers, Building and Grounds Cleaning and Maintenance Workers
    - **37-1011** First-Line Supervisors/Managers of Housekeeping and Janitorial Workers
    - **37-1012** First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers
- **37-2000** Building Cleaning and Pest Control Workers
  - **37-2010** Building Cleaning Workers
    - **37-2011** Janitors and Cleaners, Except Maids and Housekeeping Cleaners
    - **37-2012** Maids and Housekeeping Cleaners
    - **37-2019** Building Cleaning Workers, All Other
  - **37-2020** Pest Control Workers
    - **37-2021** Pest Control Workers
- **37-3000** Grounds Maintenance Workers
  - **37-3010** Grounds Maintenance Workers
    - **37-3011** Landscaping and Groundskeeping Workers
    - **37-3012** Pesticide Handlers, Sprayers, and Applicators, Vegetation
    - **37-3013** Tree Trimmers and Pruners
    - **37-3019** Grounds Maintenance Workers, All Other

### 39-0000 Personal Care and Service Occupations
- **39-1000** Supervisors, Personal Care and Service Workers
  - **39-1010** First-Line Supervisors/Managers of Gaming Workers
    - **39-1011** Gaming Supervisors
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<td>39-3092</td>
<td>Costume Attendants</td>
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<td>39-3093</td>
<td>Locker Room, Coatroom, and Dressing Room Attendants</td>
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<td>Funeral Service Workers</td>
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<td>Embalmers</td>
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<td>39-5000</td>
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<td>39-5010</td>
<td>Barbers and Cosmetologists</td>
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<td>Barbers</td>
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<td>39-5012</td>
<td>Hairdressers, Hairstylists, and Cosmetologists</td>
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39-5091  Makeup Artists, Theatrical and Performance
39-5092  Manicurists and Pedicurists
39-5093  Shampooers
39-5094  Skin Care Specialists

39-6000  Transportation, Tourism, and Lodging Attendants
39-6010  Baggage Porters, Bellhops, and Concierges
39-6011  Baggage Porters and Bellhops
39-6012  Concierges
39-6020  Tour and Travel Guides
39-6021  Tour Guides and Escorts
39-6022  Travel Guides
39-6030  Transportation Attendants
39-6031  Flight Attendants
39-6032  Transportation Attendants, Except Flight Attendants and Baggage Porters

39-9000  Other Personal Care and Service Workers
39-9010  Child Care Workers
39-9011  Child Care Workers
39-9020  Personal and Home Care Aides
39-9021  Personal and Home Care Aides
39-9030  Recreation and Fitness Workers
39-9031  Fitness Trainers and Aerobics Instructors
39-9032  Recreation Workers
39-9040  Residential Advisors
39-9041  Residential Advisors
39-9090  Miscellaneous Personal Care and Service Workers
39-9099  Personal Care and Service Workers, All Other

41-0000  Sales and Related Occupations
41-1000  Supervisors, Sales Workers
41-1010  First-Line Supervisors/Managers, Sales Workers
41-1011  First-Line Supervisors/Managers of Retail Sales Workers
41-1012  First-Line Supervisors/Managers of Non-Retail Sales Workers
41-2000  Retail Sales Workers
41-2010 Cashiers
   41-2011 Cashiers

41-2012 Gaming Change Persons and Booth Cashiers

41-2020 Counter and Rental Clerks and Parts Salespersons
   41-2021 Counter and Rental Clerks

41-2022 Parts Salespersons

41-2030 Retail Salespersons
   41-2031 Retail Salespersons

41-3000 Sales Representatives, Services
   41-3010 Advertising Sales Agents
      41-3011 Advertising Sales Agents

41-3020 Insurance Sales Agents
   41-3021 Insurance Sales Agents

41-3030 Securities, Commodities, and Financial Services Sales Agents
   41-3031 Securities, Commodities, and Financial Services Sales Agents

41-3040 Travel Agents
   41-3041 Travel Agents

41-3090 Miscellaneous Sales Representatives, Services
   41-3099 Sales Representatives, Services, All Other

41-4000 Sales Representatives, Wholesale and Manufacturing
   41-4010 Sales Representatives, Wholesale and Manufacturing
      41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and
          Scientific Products

41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and
          Scientific Products

41-9000 Other Sales and Related Workers
   41-9010 Models, Demonstrators, and Product Promoters
      41-9011 Demonstrators and Product Promoters

41-9012 Models

41-9020 Real Estate Brokers and Sales Agents
   41-9021 Real Estate Brokers

41-9022 Real Estate Sales Agents

41-9030 Sales Engineers
41-9031  Sales Engineers
41-9040  Telemarketers
41-9041  Telemarketers
41-9090  Miscellaneous Sales and Related Workers
41-9091  Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
41-9099  Sales and Related Workers, All Other

43-0000  Office and Administrative Support Occupations
   43-1000  Supervisors, Office and Administrative Support Workers
      43-1010  First-Line Supervisors/Managers of Office and Administrative Support Workers
      43-1011  First-Line Supervisors/Managers of Office and Administrative Support Workers

43-2000  Communications Equipment Operators
   43-2010  Switchboard Operators, Including Answering Service
      43-2011  Switchboard Operators, Including Answering Service
   43-2020  Telephone Operators
      43-2021  Telephone Operators

43-2090  Miscellaneous Communications Equipment Operators
   43-2099  Communications Equipment Operators, All Other

43-3000  Financial Clerks
   43-3010  Bill and Account Collectors
      43-3011  Bill and Account Collectors
   43-3020  Billing and Posting Clerks and Machine Operators
      43-3021  Billing and Posting Clerks and Machine Operators
   43-3030  Bookkeeping, Accounting, and Auditing Clerks
      43-3031  Bookkeeping, Accounting, and Auditing Clerks

43-3040  Gaming Cage Workers
   43-3041  Gaming Cage Workers

43-3050  Payroll and Timekeeping Clerks
   43-3051  Payroll and Timekeeping Clerks

43-3060  Procurement Clerks
   43-3061  Procurement Clerks

43-3070  Tellers
   43-3071  Tellers

43-4000  Information and Record Clerks
43-4010  Brokerage Clerks
   43-4011  Brokerage Clerks

43-4020  Correspondence Clerks
   43-4021  Correspondence Clerks

43-4030  Court, Municipal, and License Clerks
   43-4031  Court, Municipal, and License Clerks

43-4040  Credit Authorizers, Checkers, and Clerks
   43-4041  Credit Authorizers, Checkers, and Clerks

43-4050  Customer Service Representatives
   43-4051  Customer Service Representatives

43-4060  Eligibility Interviewers, Government Programs
   43-4061  Eligibility Interviewers, Government Programs

43-4070  File Clerks
   43-4071  File Clerks

43-4080  Hotel, Motel, and Resort Desk Clerks
   43-4081  Hotel, Motel, and Resort Desk Clerks

43-4110  Interviewers, Except Eligibility and Loan
   43-4111  Interviewers, Except Eligibility and Loan

43-4120  Library Assistants, Clerical
   43-4121  Library Assistants, Clerical

43-4130  Loan Interviewers and Clerks
   43-4131  Loan Interviewers and Clerks

43-4140  New Accounts Clerks
   43-4141  New Accounts Clerks

43-4150  Order Clerks
   43-4151  Order Clerks

43-4160  Human Resources Assistants, Except Payroll and Timekeeping
   43-4161  Human Resources Assistants, Except Payroll and Timekeeping

43-4170  Receptionists and Information Clerks
   43-4171  Receptionists and Information Clerks

43-4180  Reservation and Transportation Ticket Agents and Travel Clerks
   43-4181  Reservation and Transportation Ticket Agents and Travel Clerks

43-4190  Miscellaneous Information and Record Clerks
43-4199  Information and Record Clerks, All Other

43-5000  Material Recording, Scheduling, Dispatching, and Distributing Workers
    43-5010  Cargo and Freight Agents
    43-5011  Cargo and Freight Agents

43-5020  Couriers and Messengers
    43-5021  Couriers and Messengers

43-5030  Dispatchers
    43-5031  Police, Fire, and Ambulance Dispatchers
    43-5032  Dispatchers, Except Police, Fire, and Ambulance

43-5040  Meter Readers, Utilities
    43-5041  Meter Readers, Utilities

43-5050  Postal Service Workers
    43-5051  Postal Service Clerks

43-5052  Postal Service Mail Carriers

43-5053  Postal Service Mail Sorters, Processors, and Processing Machine Operators

43-5060  Production, Planning, and Expediting Clerks
    43-5061  Production, Planning, and Expediting Clerks

43-5070  Shipping, Receiving, and Traffic Clerks
    43-5071  Shipping, Receiving, and Traffic Clerks

43-5080  Stock Clerks and Order Fillers
    43-5081  Stock Clerks and Order Fillers

43-5110  Weighers, Measurers, Checkers, and Samplers, Recordkeeping
    43-5111  Weighers, Measurers, Checkers, and Samplers, Recordkeeping

43-6000  Secretaries and Administrative Assistants
    43-6010  Secretaries and Administrative Assistants
    43-6011  Executive Secretaries and Administrative Assistants

43-6012  Legal Secretaries

43-6013  Medical Secretaries

43-6014  Secretaries, Except Legal, Medical, and Executive

43-9000  Other Office and Administrative Support Workers
    43-9010  Computer Operators
    43-9011  Computer Operators
43-9020  Data Entry and Information Processing Workers
   43-9021  Data Entry Keyers

   43-9022  Word Processors and Typists

43-9030  Desktop Publishers
   43-9031  Desktop Publishers

43-9040  Insurance Claims and Policy Processing Clerks
   43-9041  Insurance Claims and Policy Processing Clerks

43-9050  Mail Clerks and Mail Machine Operators, Except Postal Service
   43-9051  Mail Clerks and Mail Machine Operators, Except Postal Service

43-9060  Office Clerks, General
   43-9061  Office Clerks, General

43-9070  Office Machine Operators, Except Computer
   43-9071  Office Machine Operators, Except Computer

43-9080  Proofreaders and Copy Markers
   43-9081  Proofreaders and Copy Markers

43-9100  Statistical Assistants
   43-9110  Statistical Assistants

43-9110  Statistical Assistants
   43-9111  Statistical Assistants

43-9190  Miscellaneous Office and Administrative Support Workers
   43-9199  Office and Administrative Support Workers, All Other

45-0000  Farming, Fishing, and Forestry Occupations
   45-1000  Supervisors, Farming, Fishing, and Forestry Workers
         45-1010  First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers
                   45-1011  First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers

45-2000  Agricultural Workers
   45-2010  Agricultural Inspectors
         45-2011  Agricultural Inspectors

45-2020  Animal Breeders
   45-2021  Animal Breeders

45-2030  Farm Labor Contractors
   45-2031  Farm Labor Contractors

45-2040  Graders and Sorters, Agricultural Products
   45-2041  Graders and Sorters, Agricultural Products

45-2090  Miscellaneous Agricultural Workers
   45-2091  Agricultural Equipment Operators

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45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse
45-2093 Farmworkers, Farm and Ranch Animals
45-2099 Agricultural Workers, All Other

45-3000 Fishing and Hunting Workers
  45-3010 Fishers and Related Fishing Workers
  45-3011 Fishers and Related Fishing Workers
  45-3020 Hunters and Trappers
  45-3021 Hunters and Trappers

45-4000 Forest, Conservation, and Logging Workers
  45-4010 Forest and Conservation Workers
  45-4011 Forest and Conservation Workers
  45-4020 Logging Workers
  45-4021 Fallers
  45-4022 Logging Equipment Operators
  45-4023 Log Graders and Scalers
  45-4029 Logging Workers, All Other

45-9000 Other Farming, Fishing, and Forestry Workers
  45-9090 Miscellaneous Farming, Fishing, and Forestry Workers
  45-9099 Farming, Fishing, and Forestry Workers, All Other

47-0000 Construction and Extraction Occupations
  47-1000 Supervisors, Construction and Extraction Workers
    47-1010 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
    47-1011 First-Line Supervisors/Managers of Construction Trades and Extraction Workers

47-2000 Construction Trades Workers
  47-2010 Boilermakers
    47-2011 Boilermakers
  47-2020 Brickmasons, Blockmasons, and Stonemasons
    47-2021 Brickmasons and Blockmasons
    47-2022 Stonemasons
  47-2030 Carpenters
    47-2031 Carpenters
  47-2040 Carpet, Floor, and Tile Installers and Finishers
47-2041  Carpet Installers
47-2042  Floor Layers, Except Carpet, Wood, and Hard Tiles
47-2043  Floor Sanders and Finishers
47-2044  Tile and Marble Setters
47-2050  Cement Masons, Concrete Finishers, and Terrazzo Workers
   47-2051  Cement Masons and Concrete Finishers
   47-2053  Terrazzo Workers and Finishers
47-2060  Construction Laborers
   47-2061  Construction Laborers
47-2070  Construction Equipment Operators
   47-2071  Paving, Surfacing, and Tamping Equipment Operators
   47-2072  Pile-Driven Operators
   47-2073  Operating Engineers and Other Construction Equipment Operators
47-2080  Drywall Installers, Ceiling Tile Installers, and Tapers
   47-2081  Drywall and Ceiling Tile Installers
   47-2082  Tapers
47-2110  Electricians
   47-2111  Electricians
47-2120  Glaziers
   47-2121  Glaziers
47-2130  Insulation Workers
   47-2131  Insulation Workers, Floor, Ceiling, and Wall
   47-2132  Insulation Workers, Mechanical
47-2140  Painters and Paperhangers
   47-2141  Painters, Construction and Maintenance
   47-2142  Paperhangers
47-2150  Pipelayers, Plumbers, Pipefitters, and Steamfitters
   47-2151  Pipelayers
   47-2152  Plumbers, Pipefitters, and Steamfitters
47-2160  Plasterers and Stucco Masons

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<td>Helpers--Carpenters</td>
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<td>Helpers--Electricians</td>
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<td>Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining</td>
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<td>Supervisors of Installation, Maintenance, and Repair Workers</td>
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<td>First-Line Supervisors/Managers of Mechanics, Installers, and Repairers</td>
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<tr>
<th>Code</th>
<th>Electrical and Electronic Equipment Mechanics, Installers, and Repairers</th>
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49-2010 Computer, Automated Teller, and Office Machine Repairers
   49-2011 Computer, Automated Teller, and Office Machine Repairers

49-2020 Radio and Telecommunications Equipment Installers and Repairers
   49-2021 Radio Mechanics
   49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers

49-2090 Miscellaneous Electrical and Electronic Equipment Mechanics, Installers, and Repairers
   49-2091 Avionics Technicians
   49-2092 Electric Motor, Power Tool, and Related Repairers
   49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment
   49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment
   49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
   49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles
   49-2097 Electronic Home Entertainment Equipment Installers and Repairers
   49-2098 Security and Fire Alarm Systems Installers

49-3000 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
   49-3010 Aircraft Mechanics and Service Technicians
   49-3011 Aircraft Mechanics and Service Technicians
   49-3020 Automotive Technicians and Repairers
   49-3021 Automotive Body and Related Repairers
   49-3022 Automotive Glass Installers and Repairers
   49-3023 Automotive Service Technicians and Mechanics

49-3030 Bus and Truck Mechanics and Diesel Engine Specialists
   49-3031 Bus and Truck Mechanics and Diesel Engine Specialists

49-3040 Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics
   49-3041 Farm Equipment Mechanics
   49-3042 Mobile Heavy Equipment Mechanics, Except Engines
   49-3043 Rail Car Repairers
49-3050 Small Engine Mechanics
   49-3051 Motorboat Mechanics

49-3052 Motorcycle Mechanics

49-3053 Outdoor Power Equipment and Other Small Engine Mechanics

49-3090 Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
   49-3091 Bicycle Repairers
   49-3092 Recreational Vehicle Service Technicians
   49-3093 Tire Repairers and Changers

49-9000 Other Installation, Maintenance, and Repair Occupations
   49-9010 Control and Valve Installers and Repairers
       49-9011 Mechanical Door Repairers
       49-9012 Control and Valve Installers and Repairers, Except Mechanical Door

49-9020 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
   49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers

49-9030 Home Appliance Repairers
   49-9031 Home Appliance Repairers

49-9040 Industrial Machinery Installation, Repair, and Maintenance Workers
   49-9041 Industrial Machinery Mechanics

49-9042 Maintenance and Repair Workers, General

49-9043 Maintenance Workers, Machinery

49-9044 Millwrights

49-9045 Refractory Materials Repairers, Except Brickmasons

49-9050 Line Installers and Repairers
   49-9051 Electrical Power-Line Installers and Repairers

49-9052 Telecommunications Line Installers and Repairers

49-9060 Precision Instrument and Equipment Repairers
   49-9061 Camera and Photographic Equipment Repairers

49-9062 Medical Equipment Repairers
49-9063  Musical Instrument Repairers and Tuners

49-9064  Watch Repairers

49-9069  Precision Instrument and Equipment Repairers, All Other

49-9090  Miscellaneous Installation, Maintenance, and Repair Workers
  49-9091  Coin, Vending, and Amusement Machine Servicers and Repairers

49-9092  Commercial Divers

49-9093  Fabric Menders, Except Garment

49-9094  Locksmiths and Safe Repairers

49-9095  Manufactured Building and Mobile Home Installers

49-9096  Riggers

49-9097  Signal and Track Switch Repairers

49-9098  Helpers--Installation, Maintenance, and Repair Workers

49-9099  Installation, Maintenance, and Repair Workers, All Other

51-0000  Production Occupations
  51-1000  Supervisors, Production Workers
    51-1010  First-Line Supervisors/Managers of Production and Operating Workers

51-2000  Assemblers and Fabricators
  51-2010  Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
    51-2011  Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

51-2020  Electrical, Electronics, and Electromechanical Assemblers
  51-2021  Coil Winders, Tapers, and Finishers

51-2022  Electrical and Electronic Equipment Assemblers

51-2023  Electromechanical Equipment Assemblers

51-2030  Engine and Other Machine Assemblers
  51-2031  Engine and Other Machine Assemblers

51-2040  Structural Metal Fabricators and Fitters
  51-2041  Structural Metal Fabricators and Fitters

51-2090  Miscellaneous Assemblers and Fabricators
  51-2091  Fiberglass Laminators and Fabricators

50
51-2092  Team Assemblers
51-2093  Timing Device Assemblers, Adjusters, and Calibrators
51-2099  Assemblers and Fabricators, All Other

51-3000  Food Processing Workers
   51-3010  Bakers
          51-3011  Bakers
61-3020  Butchers and Other Meat, Poultry, and Fish Processing Workers
          51-3021  Butchers and Meat Cutters
          51-3022  Meat, Poultry, and Fish Cutters and Trimmers
          51-3023  Slaughterers and Meat Packers

51-3090  Miscellaneous Food Processing Workers
   51-3091  Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
          51-3092  Food Batchmakers
          51-3093  Food Cooking Machine Operators and Tenders

51-4000  Metal Workers and Plastic Workers
61-4010  Computer Control Programmers and Operators
          51-4011  Computer-Controlled Machine Tool Operators, Metal and Plastic
          51-4012  Numerical Tool and Process Control Programmers

51-4020  Forming Machine Setters, Operators, and Tenders, Metal and Plastic
          51-4021  Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
          51-4022  Forging Machine Setters, Operators, and Tenders, Metal and Plastic
          51-4023  Rolling Machine Setters, Operators, and Tenders, Metal and Plastic

51-4030  Machine Tool Cutting Setters, Operators, and Tenders, Metal and Plastic
          51-4031  Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
          51-4032  Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
          51-4033  Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4034  Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4035  Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic

51-4040  Machinists

51-4050  Metal Furnace and Kiln Operators and Tenders

51-4051  Metal-Refining Furnace Operators and Tenders

51-4052  Pourers and Casters, Metal

51-4060  Model Makers and Patternmakers, Metal and Plastic

51-4061  Model Makers, Metal and Plastic

51-4062  Patternmakers, Metal and Plastic

51-4070  Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic

51-4071  Foundry Mold and Coremakers

51-4072  Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic

51-4080  Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4081  Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4110  Tool and Die Makers

51-4111  Tool and Die Makers

51-4120  Welding, Soldering, and Brazing Workers

51-4121  Welders, Cutters, Solderers, and Brazers

51-4122  Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders

51-4190  Miscellaneous Metalworkers and Plastic Workers

51-4191  Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic

51-4192  Lay-Out Workers, Metal and Plastic

51-4193  Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic

51-4194  Tool Grinders, Filers, and Sharpeners

51-4199  Metalworkers and Plastic Workers, All Other
51-5000 Printing Workers
   51-5010 Bookbinders and Bindery Workers
      51-5011 Bindery Workers
      51-5012 Bookbinders
   51-5020 Printers
      51-5021 Job Printers
      51-5022 Prepress Technicians and Workers
      51-5023 Printing Machine Operators

51-6000 Textile, Apparel, and Furnishings Workers
   51-6010 Laundry and Dry-Cleaning Workers
      51-6011 Laundry and Dry-Cleaning Workers
   51-6020 Pressers, Textile, Garment, and Related Materials
      51-6021 Pressers, Textile, Garment, and Related Materials
   51-6030 Sewing Machine Operators
      51-6031 Sewing Machine Operators
   51-6040 Shoe Workers
      51-6041 Shoe and Leather Workers and Repairers
      51-6042 Shoe Machine Operators and Tenders
   51-6050 Tailors, Dressmakers, and Sewers
      51-6051 Sewers, Hand
      51-6052 Tailors, Dressmakers, and Custom Sewers
   51-6060 Textile Machine Setters, Operators, and Tenders
      51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders
      51-6062 Textile Cutting Machine Setters, Operators, and Tenders
      51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
      51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
   51-6090 Miscellaneous Textile, Apparel, and Furnishings Workers
      51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
      51-6092 Fabric and Apparel Patternmakers

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<td>Textile, Apparel, and Furnishings Workers, All Other</td>
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<td>Woodworkers</td>
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<td>Cabinetmakers and Bench Carpenters</td>
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<td>Cabinetmakers and Bench Carpenters</td>
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<td>Furniture Finishers</td>
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<td>Model Makers and Patternmakers, Wood</td>
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<td>Model Makers, Wood</td>
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<td>Patternmakers, Wood</td>
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<td>Sawing Machine Setters, Operators, and Tenders, Wood</td>
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<td>51-7042</td>
<td>Woodworking Machine Setters, Operators, and Tenders, Except Sawing</td>
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<td>51-7090</td>
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<td>Power Plant Operators, Distributors, and Dispatchers</td>
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<td>Nuclear Power Reactor Operators</td>
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<td>51-8012</td>
<td>Power Distributors and Dispatchers</td>
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<td>Power Plant Operators</td>
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<td>Stationary Engineers and Boiler Operators</td>
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<td>Gas Plant Operators</td>
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<td>Petroleum Pump System Operators, Refinery Operators, and Gaugers</td>
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<td>51-9010</td>
<td>Chemical Processing Machine Setters, Operators, and Tenders</td>
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51-9011 Chemical Equipment Operators and Tenders

51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders

51-9020 Crushing, Grinding, Polishing, Mixing, and Blending Workers
   51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
   51-9022 Grinding and Polishing Workers, Hand
   51-9023 Mixing and Blending Machine Setters, Operators, and Tenders

51-9030 Cutting Workers
   51-9031 Cutters and Trimmers, Hand
   51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders

51-9040 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
   51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders

51-9050 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
   51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders

51-9060 Inspectors, Testers, Sorters, Samplers, and Weighers
   51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers

51-9070 Jewelers and Precious Stone and Metal Workers
   51-9071 Jewelers and Precious Stone and Metal Workers

51-9080 Medical, Dental, and Ophthalmic Laboratory Technicians
   51-9081 Dental Laboratory Technicians
   51-9082 Medical Appliance Technicians
   51-9083 Ophthalmic Laboratory Technicians

51-9110 Packaging and Filling Machine Operators and Tenders
   51-9111 Packaging and Filling Machine Operators and Tenders

51-9120 Painting Workers
   51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
   51-9122 Painters, Transportation Equipment
   51-9123 Painting, Coating, and Decorating Workers

51-9130 Photographic Process Workers and Processing Machine Operators
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<td>Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders</td>
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<td>Cooling and Freezing Equipment Operators and Tenders</td>
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<td>Etchers and Engravers</td>
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<td>Molders, Shapers, and Casters, Except Metal and Plastic</td>
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<td>Aircraft Cargo Handling Supervisors</td>
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<td>First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand</td>
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<td>First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators</td>
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<td>53-2010</td>
<td>Aircraft Pilots and Flight Engineers</td>
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<td>53-2011</td>
<td>Airline Pilots, Copilots, and Flight Engineers</td>
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<td>Commercial Pilots</td>
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<td>53-2020</td>
<td>Air Traffic Controllers and Airfield Operations Specialists</td>
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53-2021 Air Traffic Controllers
53-2022 Airfield Operations Specialists

53-3000 Motor Vehicle Operators
53-3010 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians

53-3020 Bus Drivers
53-3021 Bus Drivers, Transit and Intercity
53-3022 Bus Drivers, School

53-3030 Driver/Sales Workers and Truck Drivers
53-3031 Driver/Sales Workers

53-3032 Truck Drivers, Heavy and Tractor-Trailer
53-3033 Truck Drivers, Light or Delivery Services

53-3040 Taxi Drivers and Chauffeurs
53-3041 Taxi Drivers and Chauffeurs

53-3090 Miscellaneous Motor Vehicle Operators
53-3099 Motor Vehicle Operators, All Other

53-4000 Rail Transportation Workers
53-4010 Locomotive Engineers and Operators
53-4011 Locomotive Engineers

53-4012 Locomotive Firers
53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers

53-4020 Railroad Brake, Signal, and Switch Operators
53-4021 Railroad Brake, Signal, and Switch Operators

53-4030 Railroad Conductors and Yardmasters
53-4031 Railroad Conductors and Yardmasters

53-4040 Subway and Streetcar Operators
53-4041 Subway and Streetcar Operators

53-4090 Miscellaneous Rail Transportation Workers
53-4099 Rail Transportation Workers, All Other

53-5000 Water Transportation Workers
53-5010 Sailors and Marine Oilers
53-5011 Sailors and Marine Oilers
53-5020 Ship and Boat Captains and Operators
  53-5021 Captains, Mates, and Pilots of Water Vessels
  53-5022 Motorboat Operators
53-5030 Ship Engineers
  53-5031 Ship Engineers
53-6000 Other Transportation Workers
  53-6010 Bridge and Lock Tenders
  53-6011 Bridge and Lock Tenders
53-6020 Parking Lot Attendants
  53-6021 Parking Lot Attendants
53-6030 Service Station Attendants
  53-6031 Service Station Attendants
53-6040 Traffic Technicians
  53-6041 Traffic Technicians
53-6050 Transportation Inspectors
  53-6051 Transportation Inspectors
53-6090 Miscellaneous Transportation Workers
  53-6099 Transportation Workers, All Other
53-7000 Material Moving Workers
  53-7010 Conveyor Operators and Tenders
  53-7011 Conveyor Operators and Tenders
53-7020 Crane and Tower Operators
  53-7021 Crane and Tower Operators
53-7030 Dredge, Excavating, and Loading Machine Operators
  53-7031 Dredge Operators
  53-7032 Excavating and Loading Machine and Dragline Operators
  53-7033 Loading Machine Operators, Underground Mining
53-7040 Hoist and Winch Operators
  53-7041 Hoist and Winch Operators
53-7050 Industrial Truck and Tractor Operators
  53-7051 Industrial Truck and Tractor Operators
53-7060 Laborers and Material Movers, Hand
53-7061 Cleaners of Vehicles and Equipment
53-7062 Laborers and Freight, Stock, and Material Movers, Hand
53-7063 Machine Feeders and Offbearers
53-7064 Packers and Packagers, Hand
53-7070 Pumping Station Operators
  53-7071 Gas Compressor and Gas Pumping Station Operators
  53-7072 Pump Operators, Except Wellhead Pumpers
  53-7073 Wellhead Pumpers
53-7080 Refuse and Recyclable Material Collectors
  53-7081 Refuse and Recyclable Material Collectors
53-7110 Shuttle Car Operators
  53-7111 Shuttle Car Operators
53-7120 Tank Car, Truck, and Ship Loaders
  53-7121 Tank Car, Truck, and Ship Loaders
53-7190 Miscellaneous Material Moving Workers
  53-7199 Material Moving Workers, All Other
55-0000 Military Specific Occupations
  55-1000 Military Officer Special and Tactical Operations Leaders/Managers
    55-1010 Military Officer Special and Tactical Operations Leaders/Managers
      55-1011 Air Crew Officers
      55-1012 Aircraft Launch and Recovery Officers
      55-1013 Armored Assault Vehicle Officers
      55-1014 Artillery and Missile Officers
      55-1015 Command and Control Center Officers
      55-1016 Infantry Officers
      55-1017 Special Forces Officers
      55-1019 Military Officer Special and Tactical Operations Leaders/Managers, All Other
  55-2000 First-Line Enlisted Military Supervisor/Managers
    55-2010 First-Line Enlisted Military Supervisors/Managers
55-2011  First-Line Supervisors/Managers of Air Crew Members

55-2012  First-Line Supervisors/Managers of Weapons Specialists/Crew Members

55-2013  First-Line Supervisors/Managers of All Other Tactical Operations Specialists

55-3000  Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members

55-3010  Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members

55-3011  Air Crew Members

55-3012  Aircraft Launch and Recovery Specialists

55-3013  Armored Assault Vehicle Crew Members

55-3014  Artillery and Missile Crew Members

55-3015  Command and Control Center Specialists

55-3016  Infantry

55-3017  Radar and Sonar Technicians

55-3018  Special Forces

55-3019  Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members, All Other