10000  I. Managerial and Administrative Occupations

13000  A. Staff and Administrative Specialty Managerial Occupations
13002  Financial Managers
13005  Personnel, Training, and Labor Relations Managers
13008  Purchasing Managers
13011  Marketing, Advertising, and Public Relations Managers
13014  Administrative Services Managers
13017  Engineering, Mathematical, and Natural Sciences Managers

15000  B. Line and Middle Management Industry Specific Managerial Occupations
15002  Postmasters and Mail Superintendents
15005  Education Administrators
15008  Medicine and Health Services Managers
15011  Property and Real Estate Managers and Administrators
15014  Industrial Production Managers
15017  Construction Managers
15021  Mining, Quarrying, and Oil and Gas Well Drilling Managers
15023  Communications, Transportation, and Utilities Operations Managers
15026  Food Service and Lodging Managers
15031  Nursery and Greenhouse Managers
15032  Lawn Service Managers

19000  C. Other Managerial and Administrative Occupations
19002  Public Administration Chief Executives, Legislators, and General Administrators
19005  General Managers and Top Executives
19999  All Other Managers and Administrators
20000  II. Professional, Paraprofessional, and Technical Occupations

21000  A. Management Support Occupations

21100  1. Accountants, Auditors, and Other Financial Specialists
        21102  Insurance Underwriters
        21105  Credit Analysts
        21108  Loan Officers and Counselors
        21111  Tax Preparers
        21114  Accountants and Auditors
        21117  Budget Analysts
        21199  All Other Financial Specialists

21300  2. Purchasing Agents and Buyers
        21302  Wholesale and Retail Buyers, Except Farm Products
        21305  Purchasing Agents and Buyers, Farm Products
        21308  Purchasing Agents, Except Wholesale, Retail, and Farm Products

21500  3. Personnel, Training, Labor Relations Specialists, and Related Workers
        21502  Claims Takers, Unemployment Benefits
        21505  Special Agents, Insurance
        21508  Employment Interviewers, Private or Public Employment Service
        21511  Personnel, Training, and Labor Relations Specialists

21900  4. Other Management Support Workers
        21902  Cost Estimators
        21905  Management Analysts
        21908  Construction and Building Inspectors
        21911  Compliance Officers and Enforcement Inspectors, Except Construction
        21914  Tax Examiners, Collectors, and Revenue Agents
        21917  Assessors
        21921  Claims Examiners, Property and Casualty Insurance
        21999  All Other Management Support Workers
22000  B. Engineers and Related Occupations

22100  1. Engineers

- 22102  Aeronautical and Astronautical Engineers
- 22105  Metallurgists and Metallurgical, Ceramic, and Materials Engineers
- 22108  Mining Engineers, Including Mine Safety
- 22111  Petroleum Engineers
- 22114  Chemical Engineers
- 22117  Nuclear Engineers
- 22121  Civil Engineers, Including Traffic
- 22123  Agricultural Engineers
- 22126  Electrical and Electronic Engineers
- 22127  Computer Engineers
- 22128  Industrial Engineers, Except Safety
- 22132  Safety Engineers, Except Mining
- 22135  Mechanical Engineers
- 22138  Marine Engineers
- 22199  All Other Engineers

22300  2. Architects and Surveying and Mapping Scientists

- 22302  Architects, Except Landscape and Marine
- 22305  Marine Architects
- 22308  Landscape Architects
- 22311  Surveyors and Mapping Scientists

22500  3. Engineering and Related Technicians and Technologists

- 22502  Civil Engineering Technicians and Technologists
- 22505  Electrical and Electronic Engineering Technicians and Technologists
- 22508  Industrial Engineering Technicians and Technologists
- 22511  Mechanical Engineering Technicians and Technologists
- 22514  Drafters
- 22517  Estimators and Drafters, Utilities
- 22521  Surveying and Mapping Technicians
- 22599  All Other Engineering and Related Technicians and Technologists
24000  C. Natural Scientists and Related Workers
  
24100  1. Physical Scientists
        24102  Physicists and Astronomers
        24105  Chemists, Except Biochemists
        24108  Atmospheric and Space Scientists
        24111  Geologists, Geophysicists, and Oceanographers
        24199  All Other Physical Scientists
  
24300  2. Life Scientists
        24302  Foresters and Conservation Scientists
        24305  Agricultural and Food Scientists
        24308  Biological Scientists
        24311  Medical Scientists
        24399  All Other Life Scientists
  
24500  3. Physical and Life Science Technicians and Technologists
        24502  Biological, Agricultural, and Food Technicians and Technologists, Except Health
        24505  Chemical Technicians and Technologists, Except Health
        24508  Nuclear Technicians and Technologists
        24511  Petroleum Technicians and Technologists
        24599  All Other Physical and Life Science Technicians and Technologists
  
25000  D. Computer, Mathematical, Operations Research, and Related Occupations
  
25100  1. Computer Scientists and Related Workers
        25102  Systems Analysts, Electronic Data Processing
        25103  Data Base Administrators
        25104  Computer Support Specialists
        25105  Computer Programmers
        25108  Computer Programmer Aides
        25111  Programmers, Numerical Tool and Process Control
        25199  All Other Computer Scientists
25300  2. Mathematical Scientists and Related Workers
   25302  Operations and Systems Researchers and Analysts, Except Computer
   25310  Mathematical Scientists
   25312  Statisticians
   25313  Actuaries
   25315  Financial Analysts, Statistical
   25319  All Other Mathematical Scientists
   25323  Mathematical Technicians

27000  E. Social Scientists and Other Social, Recreational, and Religious Occupations

27100  1. Social Scientists, Including Urban and Regional Planners
   27102  Economists, Including Market Research Analysts
   27105  Urban and Regional Planners
   27108  Psychologists
   27199  All Other Social Scientists

27300  2. Other Social Science Related Workers
   27302  Social Workers, Medical and Psychiatric
   27305  Social Workers, Except Medical and Psychiatric
   27307  Residential Counselors
   27308  Human Services Workers
   27311  Recreation Workers

27500  3. Religious Workers
   27502  Clergy
   27505  Directors, Religious Activities and Education
   27599  All Other Religious Workers
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>28000</td>
<td><strong>F. Law and Related Occupations</strong></td>
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<tr>
<td>28100</td>
<td><strong>1. Lawyers and Related Workers</strong></td>
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<tr>
<td>28102</td>
<td>Judges and Magistrates</td>
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<td>28105</td>
<td>Adjudicators, Hearings Officers, and Judicial Reviewers</td>
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<td>28108</td>
<td>Lawyers</td>
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<td>28300</td>
<td><strong>2. Legal Assistants and Technicians, Except Clerical</strong></td>
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<tr>
<td>28302</td>
<td>Law Clerks</td>
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<td>28305</td>
<td>Paralegal Personnel</td>
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<td>28308</td>
<td>Title Searchers</td>
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<td>28311</td>
<td>Title Examiners and Abstractors</td>
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<td>28399</td>
<td>All Other Legal Assistants and Technicians, Except Clerical</td>
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<td>31000</td>
<td><strong>G. Teachers, Educators, Librarians, and Related Occupations</strong></td>
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<td>31100</td>
<td><strong>1. Teachers- College, Junior College, University, Professional School, or Technical Institute</strong></td>
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<td>31111</td>
<td>Lecturers</td>
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<td>31114</td>
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<td>Graduate Assistants, Teaching</td>
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<td>31201</td>
<td>Agricultural Sciences Teachers, Postsecondary</td>
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<td>31202</td>
<td>Life Sciences Teachers, Postsecondary</td>
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<td>31204</td>
<td>Chemistry Teachers, Postsecondary</td>
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<td>31206</td>
<td>Physics Teachers, Postsecondary</td>
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<td>31209</td>
<td>All Other Physical Sciences Teachers, Postsecondary</td>
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<td>31211</td>
<td>Health Diagnostics Teachers, Postsecondary</td>
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<td>31212</td>
<td>Health Assessment and Treatment Teachers, Postsecondary</td>
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<td>31222</td>
<td>Engineering Teachers, Postsecondary</td>
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<td>31223</td>
<td>Architecture Teachers, Postsecondary</td>
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<td>Social Sciences Teachers, Postsecondary</td>
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<td>31231</td>
<td>Anthropology and Sociology Teachers, Postsecondary</td>
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<td>31232</td>
<td>Area, Ethnic, and Cultural Studies Teachers, Postsecondary</td>
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<td>31233</td>
<td>Economics Teachers, Postsecondary</td>
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<td>31237</td>
<td>Psychology Teachers, Postsecondary</td>
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<td>31239</td>
<td>All Other Social Sciences Teachers, Postsecondary</td>
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</table>
31242 Business Teachers, Postsecondary
31244 Law Teachers, Postsecondary
31246 Criminal Justice and Law Enforcement Teachers, Postsecondary
31247 Social Work Teachers, Postsecondary
31252 Education Teachers, Postsecondary
31254 Philosophy and Religion Teachers, Postsecondary
31256 Library Science Teachers, Postsecondary
31258 Parks, Recreation, Leisure, and Fitness Studies Teachers, Postsecondary
31262 Home Economics Teachers, Postsecondary
31299 All Other Postsecondary Teachers

31300 2. Other Teachers and Instructors
31303 Teachers, Preschool
31304 Teachers, Kindergarten
31305 Teachers, Elementary School
31308 Teachers, Secondary School
31311 Teachers, Special Education
31314 Teachers and Instructors, Vocational Education and Training
31317 Instructors, Nonvocational Education
31321 Instructors and Coaches, Sports and Physical Training
31323 Farm and Home Management Advisors
31399 All Other Teachers and Instructors

31500 3. Librarians, Archivists, Curators, and Other Education Related Workers
31502 Librarians, Professional
31505 Technical Assistants, Library
31508 Audio-Visual Specialists
31511 Curators, Archivists, Museum Technicians, and Conservators
31514 Vocational and Educational Counselors
31517 Instructional Coordinators
31521 Teacher Aides, Paraprofessional

32000 H. Health Practitioners, Technologists, Technicians, and Related Health Occupations

32100 1. Health Diagnosing and Treating Practitioners
32102 Physicians and Surgeons
32105 Dentists
32108 Optometrists
32111 Podiatrists
32113 Chiropractors
32114 Veterinarians and Veterinary Inspectors
32199 All Other Health Diagnosing and Treating Practitioners
32300  2. Therapists
   32302  Respiratory Therapists
   32305  Occupational Therapists
   32308  Physical Therapists
   32311  Corrective and Manual Arts Therapists
   32314  Speech-Language Pathologists and Audiologists
   32317  Recreational Therapists
   32399  All Other Therapists

32500  3. Health Care Maintenance and Treating Workers
   32502  Registered Nurses
   32505  Licensed Practical Nurses
   32508  Emergency Medical Technicians
   32511  Physician Assistants
   32514  Opticians, Dispensing and Measuring
   32517  Pharmacists
   32518  Pharmacy Technicians
   32521  Dietitians and Nutritionists
   32523  Dietetic Technicians

32900  4. Other Health Professionals, Paraprofessionals, and Technicians
   32902  Medical and Clinical Laboratory Technologists
   32905  Medical and Clinical Laboratory Technicians
   32908  Dental Hygienists
   32911  Medical Records Technicians
   32913  Radiation Therapists
   32914  Nuclear Medicine Technologists
   32919  Radiologic Technologists
   32923  Electroneurodiagnostic Technologists
   32925  Cardiology Technologists
   32926  Electrocadioograph Technicians
   32928  Surgical Technologists and Technicians
   32931  Psychiatric Technicians
   32951  Veterinary Technicians and Technologists
   32999  All Other Health Professionals, Paraprofessionals, and Technicians
34000  I. Writers, Artists, Entertainers, Athletes, and Related Occupations
   34002  Writers and Editors
   34005  Technical Writers and Editors
   34008  Public Relations Specialists and Publicity Writers
   34011  Reporters and Correspondents
   34014  Broadcast News Analysts
   34017  Announcers, Radio and Television
   34021  Announcers, Except Radio and Television
   34023  Photographers
   34026  Camera Operators, Television and Motion Picture
   34028  Broadcast Technicians
   34032  Film Editors
   34035  Artists and Related Workers
   34038  Designers, Except Interior Designers
   34041  Interior Designers
   34044  Merchandise Displayers and Window Trimmers
   34047  Music Directors, Singers, Composers, and Related Workers
   34051  Musicians, Instrumental
   34053  Dancers and Choreographers
   34056  Producers, Directors, Actors, and Other Entertainers
   34058  Athletes, Coaches, Umpires, and Related Workers

39000  J. Other Professional, Paraprofessional, and Technical Occupations
   39002  Airplane Dispatchers and Air Traffic Controllers
   39005  Traffic Technicians
   39008  Radio Operators
   39011  Funeral Directors and Morticians
   39014  Embalmers
   39999  All Other Professional, Paraprofessional, and Technical Workers
40000 III. Sales and Related Occupations

41000 A. First Line Supervisors and Manager/Supervisors
   41002 First-Line Supervisors and Managers/Supervisors - Sales and Related Workers

43000 B. Sales Occupations, Services
   43002 Sales Agents and Placers, Insurance
   43005 Brokers, Real Estate
   43008 Sales Agents, Real Estate
   43011 Appraisers, Real Estate
   43014 Sales Agents, Securities, Commodities, and Financial Services
   43017 Sales Agents, Selected Business Services
   43021 Travel Agents
   43023 Sales Agents, Advertising
   43099 All Other Sales Representatives and Salespersons, Services

49000 C. Merchandise, Products, and Other Sales and Sales-Related Occupations
   49002 Sales Engineers
   49005 Sales Representatives, Scientific and Related Products and Services, Except Retail
   49008 Sales Representatives, Except Retail and Scientific and Related Products and Services
   49011 Salespersons, Retail
   49014 Salespersons, Parts
   49017 Counter and Rental Clerks
   49021 Stock Clerks, Sales Floor
   49023 Cashiers
   49026 Telemarketers, Door-To-Door Sales Workers, News and Street Vendors, and Other Related Workers
   49034 Demonstrators and Promoters
   49036 Models
   49999 All Other Sales and Related Workers
4. Municipal and Related Workers
   53702 Court Clerks
   53705 Municipal Clerks
   53708 License Clerks

5. Lodging and Travel Workers
   53802 Travel Clerks
   53805 Reservation and Transportation Ticket Agents
   53808 Hotel Desk Clerks
### 6. Other Industry Specific Workers

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>53902</td>
<td>Library Assistants and Bookmobile Drivers</td>
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<tr>
<td>53905</td>
<td>Teacher Aides and Educational Assistants, Clerical</td>
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<tr>
<td>53908</td>
<td>Advertising Clerks</td>
</tr>
<tr>
<td>53911</td>
<td>Proofreaders and Copy Markers</td>
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<tr>
<td>53914</td>
<td>Real Estate Clerks</td>
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</table>

### C. Secretarial and General Office Occupations

#### 1. Secretaries

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>55102</td>
<td>Legal Secretaries</td>
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<td>55105</td>
<td>Medical Secretaries</td>
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<tr>
<td>55108</td>
<td>Secretaries, Except Legal and Medical</td>
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#### 2. Other Secretarial Related and General Office Workers

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>55302</td>
<td>Stenographers and/or Court Reporters</td>
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<tr>
<td>55305</td>
<td>Receptionists and Information Clerks</td>
</tr>
<tr>
<td>55307</td>
<td>Typists, Including Word Processing</td>
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<tr>
<td>55314</td>
<td>Personnel Clerks, Except Payroll and Timekeeping</td>
</tr>
<tr>
<td>55317</td>
<td>Correspondence Clerks</td>
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<tr>
<td>55321</td>
<td>File Clerks</td>
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<tr>
<td>55323</td>
<td>Order Clerks, Materials, Merchandise, and Service</td>
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<tr>
<td>55326</td>
<td>Procurement Clerks</td>
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<tr>
<td>55328</td>
<td>Statistical Clerks</td>
</tr>
<tr>
<td>55332</td>
<td>Interviewing Clerks, Except Personnel and Social Welfare</td>
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<tr>
<td>55335</td>
<td>Customer Service Representatives, Utilities</td>
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<tr>
<td>55338</td>
<td>Bookkeeping, Accounting, and Auditing Clerks</td>
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<tr>
<td>55341</td>
<td>Payroll and Timekeeping Clerks</td>
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<tr>
<td>55344</td>
<td>Billing, Cost, and Rate Clerks</td>
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<tr>
<td>55347</td>
<td>General Office Clerks</td>
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### D. Electronic Data Processing and Other Office Machine Occupations

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>56002</td>
<td>Billing, Posting, and Calculating Machine Operators</td>
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<tr>
<td>56005</td>
<td>Duplicating Machine Operators</td>
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<tr>
<td>56008</td>
<td>Mail Machine Operators, Preparation and Handling</td>
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<tr>
<td>56011</td>
<td>Computer Operators, Except Peripheral Equipment</td>
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<tr>
<td>56014</td>
<td>Peripheral EDP Equipment Operators</td>
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<tr>
<td>56017</td>
<td>Data Entry Keyers, Except Composing</td>
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<tr>
<td>56021</td>
<td>Data Keyers, Composing</td>
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<tr>
<td>56099</td>
<td>All Other Office Machine Operators</td>
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</table>
57000  E. Communications, Mail, and Message Distributing Occupations

57100  1. Communications Equipment Operators
   57102  Switchboard Operators
   57105  Directory Assistance Operators
   57108  Central Office Operators
   57111  Telegraph and Teletype Operators
   57199  All Other Communications Equipment Operators

57300  2. Mail and Message Distribution Workers
   57302  Mail Clerks, Except Mail Machine Operators and Postal Service
   57305  Postal Mail Carriers
   57308  Postal Service Clerks
   57311  Messengers

58000  F. Material Recording, Scheduling, Dispatching, and Distributing Occupations
   58002  Dispatchers, Police, Fire, and Ambulance
   58005  Dispatchers, Except Police, Fire, and Ambulance
   58008  Production, Planning, and Expediting Clerks
   58011  Transportation Agents
   58014  Meter Readers, Utilities
   58017  Weighers, Measurers, Checkers, and Samplers, Recordkeeping
   58021  Marking Clerks
   58023  Stock Clerks - Stockroom, Warehouse or Storage Yard
   58026  Order Fillers, Wholesale and Retail Sales
   58028  Shipping, Receiving, and Traffic Clerks
   58099  All Other Material Recording, Scheduling, and Distributing Workers

59000  G. Other Clerical and Administrative Support Occupations
   59999  All Other Clerical and Administrative Support Workers
60000  V. Service Occupations

61000  A. First Line Supervisors and Manager/Supervisors- Service
   61002  Fire Fighting and Prevention Supervisors
   61005  Police and Detective Supervisors
   61008  Housekeeping Supervisors
   61099  All Other Supervisors and Managers/Supervisors - Service Workers

63000  B. Protective Service Occupations
   63002  Fire Inspectors
   63005  Forest Fire Inspectors and Prevention Specialists
   63008  Fire Fighters
   63011  Police Detectives
   63014  Police Patrol Officers
   63017  Correction Officers and Jailers
   63021  Parking Enforcement Officers
   63023  Bailiffs
   63026  United States Marshals
   63028  Criminal Investigators, Public Service
   63032  Sheriffs and Deputy Sheriffs
   63035  Detectives and Investigators, Except Public
   63038  Railroad and Transit Police and Special Agents
   63041  Fish and Game Wardens
   63044  Crossing Guards
   63047  Guards and Watch Guards
   63099  All Other Protective Service Workers
65000  C. Food and Beverage Preparation and Service Occupations
  65002  Hosts and Hostesses, Restaurant, Lounge, or Coffee Shop
  65005  Bartenders
  65008  Waiters and Waitresses
  65011  Food Servers, Outside
  65014  Dining Room and Cafeteria Attendants and Bartender Helpers
  65017  Counter Attendants - Lunchroom, Coffee Shop, or Cafeteria
  65021  Bakers, Bread and Pastry
  65023  Butchers and Meat Cutters
  65026  Cooks, Restaurant
  65028  Cooks, Institution or Cafeteria
  65032  Cooks, Fast Food
  65035  Cooks, Short Order
  65038  Food Preparation Workers
  65041  Combined Food Preparation and Service Workers
  65099  All Other Food Service Workers

66000  D. Health Service and Related Occupations
  66002  Dental Assistants
  66005  Medical Assistants
  66008  Nursing Aides, Orderlies, and Attendants
  66011  Home Health Aides
  66014  Psychiatric Aides
  66017  Physical and Corrective Therapy Assistants and Aides
  66021  Occupational Therapy Assistants and Aides
  66023  Ambulance Drivers and Attendants, Except Emergency Medical Technicians
  66026  Pharmacy Aides
  66099  All Other Health Service Workers

67000  E. Cleaning and Building Service Occupations
  67002  Maids and Housekeeping Cleaners
  67005  Janitors and Cleaners, Except Maids and Housekeeping Cleaners
  67008  Pest Controllers and Assistants
  67011  Elevator Operators
  67099  All Other Cleaning and Building Service Workers
68000  **F. Personal Service Occupations**
- 68002  Barbers
- 68005  Hairdressers, Hairstylists, and Cosmetologists
- 68008  Manicurists
- 68011  Shampooers
- 68014  Amusement and Recreation Attendants
- 68017  Guides
- 68021  Ushers, Lobby Attendants, and Ticket Takers
- 68023  Baggage Porters and Bellhops
- 68026  Flight Attendants
- 68028  Transportation Attendants, Except Flight Attendants and Baggage Porters
- 68032  Wardrobe, and Locker and Dressing Room Attendants
- 68035  Personal and Home Care Aides
- 68038  Child Care Workers
- 68041  Funeral Attendants

69000  **G. Other Service Occupations**
- 69999  All Other Service Workers
70000 VI. Agricultural, Forestry, Fishing, and Related Occupations

72000 A. First Line Supervisors
   72002 First-Line Supervisors and Managers/Supervisors - Agricultural, Forestry, Fishing, and Related Workers

73000 B. Timber Cutting and Logging Occupations- See Also Material Moving - Next Division
   73002 Fallers and Buckers
   73005 Choke Setters
   73008 Log-Handling Equipment Operators
   73011 Logging Tractor Operators
   73099 All Other Timber Cutting and Related Logging Workers

79000 C. Other Agricultural, Forestry, Fishing, and Related Occupations
   79002 Forest and Conservation Workers
   79008 Log Graders and Scalers
   79011 Graders and Sorters, Agricultural Products
   79015 Animal Breeders
   79016 Animal Trainers
   79017 Animal Caretakers, Except Farm
   79021 Farm Equipment Operators
   79033 Pruners
   79036 Sprayers/Applicators
   79041 Laborers, Landscaping and Groundskeeping
   79806 Veterinary Assistants
   79856 Farmworkers, Food and Fiber Crops
   79858 Farmworkers, Farm and Ranch Animals
   79999 All Other Agricultural, Forestry, Fishing, and Related Workers
80000 VII. Production, Construction, Operating, Maintenance, and Material Handling Occupations

81000 A. First Line Supervisors and Manager/Supervisors-Production, Construction, Maintenance, and Related

81002 First-Line Supervisors and Managers/Supervisors - Mechanics, Installers, and Repairers
81005 First-Line Supervisors and Managers/Supervisors - Construction Trades and Extractive Workers
81008 First-Line Supervisors and Managers/Supervisors - Production and Operating Workers
81011 First-Line Supervisors and Managers/Supervisors - Transportation and Material-Moving Machine and Vehicle Operators
81017 First-Line Supervisors and Managers/Supervisors - Helpers, Laborers, and Material Movers, Hand
81099 All Other First-Line Supervisors and Managers/Supervisors - Production, Construction, Maintenance, and Related Workers

83000 B. Inspectors and Related Occupations

83002 Precision Inspectors, Testers, and Graders
83005 Production Inspectors, Testers, Graders, Sorters, Samplers, and Weighers
83008 Transportation Inspectors
83099 All Other Inspectors, Testers, and Related Workers

85000 C. Mechanics, Installers, and Repairers

85100 1. Machinery and Related Mechanics, Installers, and Repairers

85110 Machinery Maintenance Mechanics
85112 Machinery Maintenance Mechanics, Textile Machines
85113 Machinery Maintenance Mechanics, Sewing Machines
85116 Machinery Maintenance Mechanics, Marine Equipment
85117 Underground Mine Machinery Mechanics
85118 Machinery Maintenance Mechanics, Water or Power Generation Plant
85119 All Other Machinery Maintenance Mechanics
85123 Millwrights
85126 Refractory Materials Repairers, Except Brickmasons
85128 Machinery Maintenance Workers
85132 Maintenance Repairers, General Utility
85300  2. Mobile Equipment Mechanics, Installers, and Repairers
85302  Automotive Mechanics
85305  Automotive Body and Related Repairers
85308  Motorcycle Repairers
85311  Bus and Truck Mechanics and Diesel Engine Specialists
85314  Mobile Heavy Equipment Mechanics, Except Engines
85317  Rail Car Repairers
85321  Farm Equipment Mechanics
85323  Aircraft Mechanics
85326  Aircraft Engine Specialists
85328  Small Engine Specialists

85500  3. Communications Equipment Mechanics, Installers, and Repairers
85502  Central Office and PBX Installers and Repairers
85505  Frame Wirers, Central Office
85508  Telegraph and Teletype Installers and Maintainers
85511  Signal or Track Switch Maintainers
85514  Radio Mechanics
85599  All Other Communications Equipment Mechanics, Installers, and Repairers

85700  4. Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers
85702  Telephone and Cable Television Line Installers and Repairers
85705  Data Processing Equipment Repairers
85708  Electronic Home Entertainment Equipment Repairers
85711  Electric Home Appliance and Power Tool Repairers
85714  Electric Motor, Transformer, and Related Repairers
85717  Electronics Repairers, Commercial and Industrial Equipment
85721  Powerhouse, Substation, and Relay Electricians
85723  Electrical Power-Line Installers and Repairers
85726  Station Installers and Repairers, Telephone
85728  Electrical Installers and Repairers, Transportation Equipment
85799  All Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers
85900  5. Other Mechanics, Installers, and Repairers
     85902  Heating, Air Conditioning, and Refrigeration Mechanics and Installers
     85905  Precision Instrument Repairers
     85908  Electromedical and Biomedical Equipment Repairers
     85911  Electric Meter Installers and Repairers
     85914  Camera and Photographic Equipment Repairers
     85917  Watchmakers
     85921  Musical Instrument Repairers and Tuners
     85923  Locksmiths and Safe Repairers
     85926  Office Machine and Cash Register Servicers
     85928  Mechanical Control and Valve Installers and Repairers
     85932  Elevator Installers and Repairers
     85935  Riggers
     85938  Installers and Repairers, Manufactured Buildings, Mobile Homes, and Travel Trailers
     85944  Gas Appliance Repairers
     85947  Coin and Vending Machine Servicers and Repairers
     85951  Bicycle Repairers
     85953  Tire Repairers and Changers
     85956  Menders, Garments, Linens, and Related
     85999  All Other Mechanics, Installers, and Repairers

87000  D. Construction Trades and Extractive Occupations, Except Material Moving

87100  1. Carpentry and Related Workers
     87102  Carpenters
     87105  Ceiling Tile Installers and Acoustical Carpenters
     87108  Drywall Installers
     87111  Tapers
     87114  Lathers
     87121  Brattice Builders

87200  2. Electrical and Related Workers
     87202  Electricians

87300  3. Masonry and Related Workers
     87302  Brickmasons
     87305  Stonemasons
     87308  Hard Tile Setters
     87311  Concrete and Terrazzo Finishers
     87314  Reinforcing Metal Workers
     87317  Plasterers and Stucco Masons
87400  4. Painting and Related Workers
        87402  Painters and Paperhangers, Construction and Maintenance

87500  5. Plumbing and Related Workers
        87502  Plumbers, Pipefitters, and Steamfitters
        87505  Pipelaying Fitters
        87508  Pipelayers
        87511  Septic Tank Servicers and Sewer Pipe Cleaners

87600  6. Floor Related Workers, Except Carpenters
        87602  Carpet Installers
        87605  Floor Layers, Except Carpet, Wood, and Hard Tiles
        87608  Floor Sanding Machine Operators

87700  7. Road, Rail, and Related Construction and Maintenance Workers,
       Except Masonry Workers
        87702  Air Hammer Operators
        87705  Pile-Driver Operators
        87708  Paving, Surfacing, and Tamping Equipment Operators
        87711  Highway Maintenance Workers
        87714  Rail-Track Laying and Maintenance Equipment Operators

87800  8. Other Construction Trades Workers
        87802  Insulation Workers
        87803  Hazardous Materials Removal Workers
        87805  Sheet Metal Duct Installers
        87808  Roofers
        87811  Glaziers
        87814  Structural Metal Workers
        87817  Fence Erectors
        87899  All Other Construction Trades Workers
87900 9. Extractive and Related Workers- Including Blasters
87902 Earth Drillers, Except Oil and Gas
87905 Blasters and Explosives Workers
87908 Rock Splitters, Quarry
87911 Rotary Drill Operators, Oil and Gas Extraction
87914 Derrick Operators, Oil and Gas Extraction
87917 Service Unit Operators
87921 Roustabouts
87923 Roof Bolters
87940 Mining Machine Operators
87941 Continuous Mining Machine Operators
87943 Mine Cutting and Channeling Machine Operators
87949 All Other Mining Machine Operators
87989 All Other Extractive Workers, Except Helpers
87999 All Other Construction and Extractive Workers, Except Helpers

89000 E. Precision Production Occupations

89100 1. Precision Metal Workers
89102 Tool and Die Makers
89105 Precision Instrument Makers
89108 Machinists
89111 Tool Grinders, Filers, Sharpeners, and Other Precision Grinders
89114 Pattern and Model Makers, Metal
89117 Precision Lay-Out Workers, Metal
89121 Shipfitters
89123 Jewlers and Silversmiths
89126 Precision Hand Workers, Jewelry and Related Products
89128 Precision Etchers and Engravers, Hand or Machine
89132 Sheet Metal Workers
89135 Boilermakers
89199 All Other Precision Metal Workers

89300 2. Precision Woodworkers
89302 Pattern and Model Makers, Wood
89305 Pattern Markers, Wood
89308 Wood Machinists
89311 Cabinetmakers and Bench Carpenters
89314 Furniture Finishers
89399 All Other Precision Woodworkers
3. Precision Textile, Apparel, and Furnishings Workers

- 89500 Fabric and Apparel Patternmakers and Lay-Out Workers
- 89502 Custom Tailors and Sewers
- 89505 Upholsterers
- 89511 Shoe and Leather Workers and Repairers, Precision
- 89514 Spotters, Dry-Cleaning
- 89517 Pressers, Delicate Fabrics
- 89521 Precision Dyers
- 89599 All Other Precision Textile, Apparel, and Furnishings Workers

4. Precision Printing Workers

- 89700 Hand Compositors and Typesetters
- 89702 Job Printers
- 89705 Paste-Up Workers
- 89706 Electronic Pagination System Operators
- 89710 Precision Lithography and Photoengraving Workers
- 89712 Photoengravers
- 89713 Camera Operators
- 89715 Scanner Operators
- 89717 Strippers
- 89718 Platemakers
- 89719 All Other Lithography and Photoengraving Workers
- 89721 Bookbinders
- 89799 All Other Precision Printing Workers

5. Precision Food Workers

- 89800 Slaughterers and Butchers
- 89802 Bakers, Manufacturing
- 89805 Food Batchmakers
- 89899 All Other Precision Food and Tobacco Workers
### 89900 Other Precision Workers

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>89902</td>
<td>Precision Foundry Mold and Coremakers</td>
</tr>
<tr>
<td>89905</td>
<td>Precision Molders, Shapers, Casters, and Carvers, Except Jewelry and Foundry</td>
</tr>
<tr>
<td>89908</td>
<td>Precision Patternmakers, Model Makers, Lay-Out Workers, and Cutters</td>
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<tr>
<td>89911</td>
<td>Precision Detail Design Decorators and Painters</td>
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<tr>
<td>89914</td>
<td>Precision Photographic Process Workers</td>
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<tr>
<td>89917</td>
<td>Precision Optical Goods Workers</td>
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<tr>
<td>89921</td>
<td>Precision Dental Laboratory Technicians</td>
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<tr>
<td>89923</td>
<td>Medical Appliance Makers</td>
</tr>
<tr>
<td>89926</td>
<td>Gem and Diamond Workers</td>
</tr>
<tr>
<td>89999</td>
<td>All Other Precision Workers</td>
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</tbody>
</table>

### 91000 Machine Setters, Set-Up Operators, Operators, and Tenders

#### 91100 Machine Tool Cutting Setters, Operators, and Related Workers-Metal and Plastic

<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>91102</td>
<td>Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91105</td>
<td>Lathe and Turning Machine Tool Setters and Set-Up Operators, Metal and Plastic</td>
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<td>91108</td>
<td>Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91111</td>
<td>Milling and Planing Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91114</td>
<td>Grinding, Lapping, and Buffing Machine Tool Setters and Set-Up Operators, Metal and Plastic</td>
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<td>91117</td>
<td>Machine Tool Cutting Operators and Tenders, Metal and Plastic</td>
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</tbody>
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#### 91300 Machine Forming Setters, Operators, and Related Workers-Metal and Plastic

<table>
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<th>Code</th>
<th>Occupation</th>
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<tbody>
<tr>
<td>91302</td>
<td>Punching Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91305</td>
<td>Press and Press-Brake Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91308</td>
<td>Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91311</td>
<td>Extruding and Drawing Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<tr>
<td>91314</td>
<td>Rolling Machine Setters and Set-Up Operators, Metal and Plastic</td>
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<td>91317</td>
<td>Forging Machine Setters and Set-Up Operators, Metal and Plastic</td>
</tr>
<tr>
<td>91321</td>
<td>Machine Forming Operators and Tenders, Metal and Plastic</td>
</tr>
</tbody>
</table>

- 91502 Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
- 91505 Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
- 91508 Combination Machine Tool Operators and Tenders, Metal and Plastic

91700 4. Metal Fabricating and Related Machine Setters, Operators, and Related Workers

- 91702 Welding Machine Setters and Set-Up Operators
- 91705 Welding Machine Operators and Tenders
- 91708 Soldering and Brazing Machine Setters and Set-Up Operators
- 91711 Soldering and Brazing Machine Operators and Tenders
- 91714 Metal Fabricators, Structural Metal Products

91900 5. Metal and Plastic Processing Machine Setters, Operators, and Related Workers

- 91902 Plastic Molding and Casting Machine Setters and Set-Up Operators
- 91905 Plastic Molding and Casting Machine Operators and Tenders
- 91908 Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
- 91911 Metal Molding, Coremaking, and Casting Machine Operators and Tenders
- 91914 Foundry Mold Assembly and Shake-Out Workers
- 91917 Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
- 91921 Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
- 91923 Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
- 91926 Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
- 91928 Heating Equipment Setters and Set-Up Operators, Metal and Plastic
- 91932 Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic
- 91935 Furnace Operators and Tenders
- 91938 Heaters, Metal and Plastic
6. Other Metal and Plastic Machine Setters, Operators, and Related Workers

92197 All Other Metal and Plastic (Cutting, Forming, Fabricating, or Processing) Machine Setters and Set-Up Operators
92198 All Other Metal and Plastic (Cutting, Forming, Fabricating, or Processing) Machine Operators and Tenders

7. Woodworking Machine Setters, Operators, and Related Workers

92302 Sawing Machine Setters and Set-Up Operators
92305 Head Sawyers
92308 Sawing Machine Operators and Tenders
92311 Woodworking Machine Setters and Set-Up Operators, Except Sawing
92314 Woodworking Machine Operators and Tenders, Except Sawing

8. Printing, Binding, and Related Workers

92510 Printing Press Machine Setters and Set-Up Operators
92512 Offset Lithographic Press Setters and Set-Up Operators
92515 Letterpress Setters and Set-Up Operators
92519 All Other Printing Press Setters and Set-Up Operators
92522 Specialty Materials Printing Machine Setters and Set-Up Operators
92524 Screen Printing Machine Setters and Set-Up Operators
92525 Bindery Machine Setters and Set-Up Operators
92529 All Other Printing Related Machine Setters and Set-Up Operators
92541 Typesetting and Composing Machine Operators and Tenders
92543 Printing Press Machine Operators and Tenders
92545 Photoengraving and Lithographing Machine Operators and Tenders
92546 Bindery Machine Operators and Tenders
92549 All Other Printing, Binding, and Related Machine Operators and Tenders

9. Textile and Related Setters, Operators, and Related Workers

92702 Textile Machine Setters and Set-Up Operators
92705 Textile Machine Operators and Tenders, Winding, Twisting, Knitting, Weaving, and Cutting
92708 Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers
92711 Textile Draw-Out Machine Operators and Tenders
92714 Textile Bleaching and Dyeing Machine Operators and Tenders
92717 Sewing Machine Operators, Garment
92721 Sewing Machine Operators, Nongarment
92723 Shoe Sewing Machine Operators and Tenders
92726 Laundry and Dry-Cleaning Machine Operators and Tenders, Except Pressing
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>92728</td>
<td>Pressing Machine Operators and Tenders, Textile, Garment, and Related Materials</td>
</tr>
<tr>
<td>92902</td>
<td>Electronic Semiconductor Processors</td>
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<tr>
<td>92905</td>
<td>Motion Picture Projectionists</td>
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<td>92908</td>
<td>Photographic Processing Machine Operators and Tenders</td>
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<td>92911</td>
<td>Tire Building Machine Operators</td>
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<td>92914</td>
<td>Paper Goods Machine Setters and Set-Up Operators</td>
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<td>92917</td>
<td>Cooking Machine Operators and Tenders, Food and Tobacco</td>
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<td>92921</td>
<td>Roasting, Baking, and Drying Machine Operators and Tenders, Food and Tobacco</td>
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<tr>
<td>92923</td>
<td>Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders</td>
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<td>92926</td>
<td>Boiler Operators and Tenders, Low Pressure</td>
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<td>92928</td>
<td>Cooling and Freezing Equipment Operators and Tenders</td>
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<td>92932</td>
<td>Dairy Processing Equipment Operators, Including Setters</td>
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<tr>
<td>92935</td>
<td>Chemical Equipment Controllers and Operators</td>
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<td>92938</td>
<td>Chemical Equipment Tenders</td>
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<td>92941</td>
<td>Cutting and Slicing Machine Setters and Set-Up Operators</td>
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<td>92944</td>
<td>Cutting and Slicing Machine Operators and Tenders</td>
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<tr>
<td>92947</td>
<td>Painters, Transportation Equipment</td>
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<tr>
<td>92951</td>
<td>Coating, Painting, and Spraying Machine Setters and Set-Up Operators</td>
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<tr>
<td>92953</td>
<td>Coating, Painting, and Spraying Machine Operators and Tenders</td>
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<tr>
<td>92956</td>
<td>Cementing and Gluing Machine Operators and Tenders</td>
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<td>92958</td>
<td>Cleaning, Washing, and Pickling Equipment Operators and Tenders</td>
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<tr>
<td>92962</td>
<td>Separating, Filtering, Clarifying, Precipitating, and Still Machine Operators and Tenders</td>
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<tr>
<td>92965</td>
<td>Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders</td>
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<td>92968</td>
<td>Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators</td>
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<td>Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders</td>
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<tr>
<td>92974</td>
<td>Packaging and Filling Machine Operators and Tenders</td>
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<td>92997</td>
<td>All Other Machine Setters and Set-Up Operators</td>
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<tr>
<td>92998</td>
<td>All Other Machine Operators and Tenders</td>
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### G. Hand Working Occupations, Including Assemblers and Fabricators

#### 93100 1. Precision Assemblers

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>93102</td>
<td>Aircraft Structure, Surfaces, Rigging, and Systems Assemblers, Precision</td>
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<tr>
<td>93105</td>
<td>Machine Builders and Other Precision Machine Assemblers</td>
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<tr>
<td>93108</td>
<td>Fitters, Structural Metal, Precision</td>
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<tr>
<td>93111</td>
<td>Electromechanical Equipment Assemblers, Precision</td>
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<tr>
<td>93114</td>
<td>Electrical and Electronic Equipment Assemblers, Precision</td>
</tr>
<tr>
<td>93117</td>
<td>Watch, Clock, and Chronometer Assemblers, Adjusters, Calibrators, Precision</td>
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<tr>
<td>93197</td>
<td>All Other Precision Assemblers</td>
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</tbody>
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#### 93900 2. Other Hand Workers, Including Assemblers and Fabricators

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>93902</td>
<td>Machine Assemblers</td>
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<tr>
<td>93905</td>
<td>Electrical and Electronic Assemblers</td>
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<tr>
<td>93908</td>
<td>Coil Winders, Tapers, and Finishers</td>
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<tr>
<td>93911</td>
<td>Glaziers, Manufacturing</td>
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<tr>
<td>93914</td>
<td>Welders and Cutters</td>
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<td>93917</td>
<td>Solderers and Brazers</td>
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<td>93921</td>
<td>Pressers, Hand</td>
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<tr>
<td>93923</td>
<td>Sewers, Hand</td>
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<td>93926</td>
<td>Cutters and Trimmers, Hand</td>
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<td>93928</td>
<td>Portable Machine Cutters</td>
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<td>93932</td>
<td>Carpet Cutters, Diagrammers, and Seamers</td>
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<td>93935</td>
<td>Cannery Workers</td>
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<td>93938</td>
<td>Meat, Poultry, and Fish Cutters and Trimmers, Hand</td>
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<tr>
<td>93941</td>
<td>Metal Pourers and Casters, Basic Shapes</td>
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<td>93944</td>
<td>Molders and Casters, Hand</td>
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<tr>
<td>93947</td>
<td>Painting, Coating, and Decorating Workers, Hand</td>
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<tr>
<td>93951</td>
<td>Engraving and Printing Workers, Hand</td>
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<tr>
<td>93953</td>
<td>Grinding and Polishing Workers, Hand</td>
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<tr>
<td>93956</td>
<td>Assemblers and Fabricators, Except Machine, Electrical, Electronic, and Precision</td>
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<tr>
<td>93999</td>
<td>All Other Hand Workers</td>
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</table>
95000  H. Plant and System Occupations

   95002  Water and Liquid Waste Treatment Plant and System Operators
   95005  Gas Plant Operators
   95008  Chemical Plant and System Operators
   95011  Petroleum Pump System Operators
   95014  Petroleum Refinery and Control Panel Operators
   95017  Gaugers
   95021  Power-Generating Plant Operators, Except Auxiliary Equipment Operators
   95023  Auxiliary Equipment Operators, Power
   95026  Power Reactor Operators
   95028  Power Distributors and Dispatchers
   95032  Stationary Engineers
   95099  All Other Plant and System Operators

97000  I. Transportation and Material Moving Machine and Vehicle Operators

97100  1. Motor Vehicle Operators

   97102  Truck Drivers, Heavy or Tractor-Trailer
   97105  Truck Drivers, Light, Include Delivery and Route Workers
   97108  Bus Drivers
   97111  Bus Drivers, School
   97114  Taxi Drivers and Chauffeurs
   97117  Driver/Sales Workers
   97199  All Other Motor Vehicle Operators

97300  2. Rail Transportation Workers

   97302  Railroad Conductors and Yardmasters
   97305  Locomotive Engineers
   97308  Rail Yard Engineers, Dinkey Operators, and Hostlers
   97311  Locomotive Firers
   97314  Subway and Streetcar Operators
   97317  Railroad Brake, Signal, and Switch Operators
   97399  All Other Rail Vehicle Operators and Controllers
97500 3. Water Transportation and Related Workers
- 97502 Captains, Water Vessel
- 97505 Mates, Ship, Boat, and Barge
- 97508 Pilots, Ship
- 97511 Motorboat Operators
- 97514 Able Seamen
- 97517 Ordinary Seamen and Marine Oilers
- 97521 Ship Engineers

97700 4. Air Transportation Workers
- 97702 Aircraft Pilots and Flight Engineers

97800 5. Other Transportation and Related Workers
- 97802 Bridge, Lock, and Lighthouse Tenders
- 97805 Service Station Attendants
- 97808 Parking Lot Attendants
- 97899 All Other Transportation and Related Workers

97900 6. Material Moving Equipment Operators
- 97902 Longshore Equipment Operators
- 97905 Tank Car and Truck Loaders
- 97908 Oil Pumpers, Except Wellhead
- 97911 Wellhead Pumpers
- 97914 Main-Line Station Engineers
- 97917 Gas Pumping Station Operators
- 97921 Gas Compressor Operators
- 97923 Excavating and Loading Machine Operators
- 97926 Dragline Operators
- 97928 Dredge Operators
- 97932 Loading Machine Operators, Underground Mining
- 97935 Shuttle Car Operators
- 97938 Grader, Bulldozer, and Scraper Operators
- 97941 Hoist and Winch Operators
- 97944 Crane and Tower Operators
- 97947 Industrial Truck and Tractor Operators
- 97951 Conveyor Operators and Tenders
- 97953 Pump Operators
- 97956 Operating Engineers
- 97989 All Other Material-Moving Equipment Operators
- 97999 All Other Transportation and Material-Moving Equipment Operators
98000  J. Helpers, Laborers, and Material Movers, Hand- Exclude Agriculture and Forestry Laborers

98100  1. Helpers- Mechanics and Repairers
       98102  Helpers, Mechanics and Repairers

98300  2. Helpers- Construction Trades and Extractive Workers
       98311  Helpers, Brick and Stonemasons and Hard Tile Setters
       98312  Helpers, Carpenters and Related Workers
       98313  Helpers, Electricians and Power-Line Transmission Installers
       98314  Helpers, Painters, Paperhangers, Plasterers, and Stucco Masons
       98315  Helpers, Plumbers, Pipefitters, and Steamfitters
       98316  Helpers, Roofers
       98319  Helpers, All Other Construction Trades Workers
       98323  Helpers, Extractive Workers

98500  3. Machine Feeders and Offbearers
       98502  Machine Feeders and Offbearers

98700  4. Freight, Stock, and Material Movers, Hand
       98702  Stevedores, Except Equipment Operators
       98705  Refuse and Recyclable Material Collectors
       98799  All Other Freight, Stock, and Material Movers, Hand

98900  5. Other Helpers, Laborers, and Material Movers, Hand
       98902  Hand Packers and Packagers
       98905  Vehicle Washers and Equipment Cleaners
       98999  All Other Helpers, Laborers, and Material Movers, Hand