

2018 OEWS (Occupational) Structure

For use with 2020 Occupational Employment and Wage Statistics Estimates

11-0000	Management Occupations
13-0000	Business and Financial Operations Occupations
15-0000	Computer and Mathematical Occupations
17-0000	Architecture and Engineering Occupations
19-0000	Life, Physical, and Social Science Occupations
21-0000	Community and Social Service Occupations
23-0000	Legal Occupations
25-0000	Educational Instruction and Library Occupations
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations
29-0000	Healthcare Practitioners and Technical Occupations
31-0000	Healthcare Support Occupations
33-0000	Protective Service Occupations
35-0000	Food Preparation and Serving Related Occupations
37-0000	Building and Grounds Cleaning and Maintenance Occupations
39-0000	Personal Care and Service Occupations
41-0000	Sales and Related Occupations
43-0000	Office and Administrative Support Occupations
45-0000	Farming, Fishing, and Forestry Occupations
47-0000	Construction and Extraction Occupations
49-0000	Installation, Maintenance, and Repair Occupations
51-0000	Production Occupations
53-0000	Transportation and Material Moving Occupations

Color Key:

Black font: SOC major group, minor group, or broad occupation (do not code to)

Code to:

Blue font: OES survey code and title – SOC based

Red font: R&D breakouts - use only in NAICS 6112 and 6113 – non-SOC based

Green font: OES Aggregation – SOC broad occupation or OES-specific code and title

Gray font: Optional code – estimates rolled up to SOC broad occupation or OES-specific code

SOC Classification Principles

The SOC Classification Principles form the basis on which the SOC system is structured.

1. The SOC covers 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 excludes occupations unique to volunteers. Each occupation is assigned to only one occupational category at the most detailed level of the classification.
2. Occupations are classified based on work performed and, in some cases, on the skills, education and/or training needed to perform the work.
3. Workers primarily engaged in planning and the directing of resources are classified in management occupations in Major Group 11–0000. Duties of these workers may include supervision.
4. Supervisors of workers in Major Groups 13–0000 through 29–0000 usually have work experience and perform activities similar to those of the workers they supervise, and therefore are classified with the workers they supervise.
5. Workers in Major Group 31–0000 Healthcare Support Occupations assist and are usually supervised by workers in Major Group 29–0000 Healthcare Practitioners and Technical Occupations, and therefore there are no first-line supervisor occupations in Major Group 31–0000.
6. Workers in Major Groups 33–0000 through 53–0000 whose primary duty is supervising are classified in the appropriate first-line supervisor category because their work activities are distinct from those of the workers they supervise.
7. Apprentices and trainees are classified with the occupations for which they are being trained, while helpers and aides are classified separately because they are not in training for the occupation they are helping.
8. If an occupation is not included as a distinct detailed occupation in the structure, it is classified in an appropriate “All Other” occupation. “All Other” occupations are placed in the structure when it is determined that the detailed occupations comprising a broad occupation group do not account for all of the workers in the group, even though such workers may perform a distinct set of work activities. These occupations appear as the last occupation in the group with a code ending in “9” and are identified in their title by having “All Other” appear at the end.
9. The U.S. Bureau of Labor Statistics and the U.S. Census Bureau are charged with collecting and reporting data on total U.S. employment across the full spectrum of SOC Major Groups. Thus, for a detailed occupation to be included in the SOC, either the Bureau of Labor Statistics or the Census Bureau must be able to collect and report data on that occupation.
10. To maximize the comparability of data, time series continuity is maintained to the extent possible.

SOC Coding Guidelines

The following SOC coding guidelines are intended to assist users in consistently assigning SOC codes and titles to survey responses and in other coding activities.

1. A worker should be assigned to an SOC occupation code based on work performed.
2. When workers in a single job could be coded in more than one occupation, they should be coded in the occupation that requires the highest level of skill. If there is no measurable difference in skill requirements, workers should be coded in the occupation in which they spend the most time. Workers whose job is to teach at different levels (e.g., elementary, middle, or secondary) should be coded in the occupation corresponding to the highest educational level they teach.
3. Data collection and reporting agencies should assign workers to the most detailed occupation possible. Different agencies may use different levels of aggregation, depending on their ability to collect data.
4. Workers who perform activities not described in any distinct detailed occupation in the SOC structure should be coded in an appropriate "All Other" occupation. These occupations appear as the last occupation in a group with a code ending in "9" and are identified by having the words "All Other" appear at the end of the title.
5. Workers in Major Groups 33–0000 through 53–0000 who spend 80 percent or more of their time performing supervisory activities are coded in the appropriate first-line supervisor category in the SOC. In these same Major Groups (33–0000 through 53– 0000), persons with supervisory duties who spend less than 80 percent of their time supervising are coded with the workers they supervise.
6. Licensed and non-licensed workers performing the same work should be coded together in the same detailed occupation, except where specified otherwise in the SOC definition.

11-0000 Management Occupations

11-1000

Top Executives

- 11-1011 Chief Executives
- 11-1021 General and Operations Managers
- 11-1031 Legislators

11-2000

Advertising, Marketing, Promotions, Public Relations, & Sales Managers

- 11-2011 Advertising and Promotions Managers
- 11-2021 Marketing Managers
- 11-2022 Sales Managers
- 11-2032 Public Relations Managers
- 11-2033 Fundraising Managers

11-3000

Operations Specialties Managers

- 11-3012 Administrative Services Managers
- 11-3013 Facilities Managers
- 11-3021 Computer and Information Systems Managers
- 11-3031 Financial Managers
- 11-3051 Industrial Production Managers
- 11-3061 Purchasing Managers
- 11-3071 Transportation, Storage, and Distribution Managers
- 11-3111 Compensation and Benefits Managers
- 11-3121 Human Resources Managers
- 11-3131 Training and Development Managers

11-9000

Other Management Occupations

- 11-9013 Farmers, Ranchers, and Other Agricultural Managers
- 11-9021 Construction Managers

11-9030

Education and Childcare Administrators

- 11-9031 Education and Childcare Administrators, Preschool and Daycare
- 11-9032 Education Administrators, Kindergarten through Secondary
- 11-9033 Education Administrators, Postsecondary
- 11-9039 Education Administrators, All Other

11-9041 Architectural and Engineering Managers

11-9051 Food Service Managers

11-9070

Entertainment and Recreation Managers

- 11-9071 Gambling Managers
- 11-9072 Entertainment and Recreation Managers, Except Gambling
- 11-9081 Lodging Managers

11-9111 Medical and Health Services Managers

11-9121 Natural Sciences Managers

11-9131 Postmasters and Mail Superintendents

11-9141 Property, Real Estate, and Community Association Managers

11-9151 Social and Community Service Managers

11-9161 Emergency Management Directors

11-9170

Personal Service Managers

- 11-9171 Funeral Home Managers
- 11-9179 Personal Service Managers, All Other
- 11-9199 Managers, All Other

13-0000 Business and Financial Operations Occupations

13-1000

Business Operations Specialists

- 13-1011 Agents and Business Managers of Artists, Performers, and Athletes
- 13-1020 **Buyers and Purchasing Agents (OES aggregation to SOC broad occupation)**
 - 13-1021 Buyers and Purchasing Agents, Farm Products (Optional – estimates rolled up to 13-1020)
 - 13-1022 Wholesale and Retail Buyers, Except Farm Products (Optional – estimates rolled up to 13-1020)
 - 13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products (Optional – estimates rolled up to 13-1020)
- 13-1031 Claims Adjusters, Examiners, and Investigators
- 13-1032 Insurance Appraisers, Auto Damage
- 13-1041 Compliance Officers
- 13-1051 Cost Estimators

13-1070

Human Resources Workers

- 13-1071 Human Resources Specialists
- 13-1074 Farm Labor Contractors
- 13-1075 Labor Relations Specialists
- 13-1081 Logisticians
- 13-1082 Project Management Specialists
- 13-1111 Management Analysts
- 13-1121 Meeting, Convention, and Event Planners
- 13-1131 Fundraisers
- 13-1141 Compensation, Benefits, and Job Analysis Specialists
- 13-1151 Training and Development Specialists
- 13-1161 Market Research Analysts and Marketing Specialists
- 13-1199 Business Operations Specialists, All Other

13-2000

Financial Specialists

- 13-2011 Accountants and Auditors
- 13-2020 **Property Appraisers and Assessors (OES aggregation to SOC broad occupation)**
 - 13-2022 Appraisers of Personal and Business Property (Optional – estimates rolled up to 13-2020)
 - 13-2023 Appraisers and Assessors of Real Estate (Optional – estimates rolled up to 13-2020)
- 13-2031 Budget Analysts
- 13-2041 Credit Analysts

13-2050

Financial Analysts and Advisors

- 13-2051 Financial and Investment Analysts
- 13-2052 Personal Financial Advisors
- 13-2053 Insurance Underwriters
- 13-2054 Financial Risk Specialists
- 13-2061 Financial Examiners
- 13-2071 Credit Counselors
- 13-2072 Loan Officers
- 13-2081 Tax Examiners and Collectors, and Revenue Agents
- 13-2082 Tax Preparers
- 13-2099 Financial Specialists, All Other

15-0000 Computer and Mathematical Occupations

15-1200 Computer Occupations

- 15-1211 Computer and Systems Analysts
- 15-1217 Computer Systems Analysts, Non R&D¹
- 15-1218 Computer Systems Analysts, R&D
- 15-1212 Information Security Analysts
- 15-1221 Computer and Information Research Scientists
- 15-1231 Computer Network Support Specialists
- 15-1232 Computer User Support Specialists

15-1240 Database and Network Administrators and Architects

- 15-1241 Computer Network Architects
- 15-1247 Computer Network Architects, Non R&D
- 15-1248 Computer Network Architects, R&D
- 15-1242 Database Administrators
- 15-1243 Database Architects
- 15-1244 Network and Computer Systems Administrators

15-1250 Software and Web Developers, Programmers, and Testers

- 15-1251 Computer Programmers
- 15-1293 Computer Programmers, Non R&D
- 15-1294 Computer Programmers, R&D
- 15-1252 Software Developers
- 15-1295 Software Developers, Non R&D
- 15-1296 Software Developers, R&D
- 15-1253 Software Quality Assurance Analysts and Testers
- 15-1297 Software Quality Assurance Analysts and Testers, Non R&D
- 15-1298 Software Quality Assurance Analysts and Testers, R&D
- 15-1254 Web Developers
- 15-1255 Web and Digital Interface Designers
- 15-1299 Computer Occupations, All Other

15-2000 Mathematical Science Occupations

- 15-2011 Actuaries
- 15-2021 Mathematicians
- 15-2031 Operations Research Analysts
- 15-2041 Statisticians
- 15-2051 Data Scientists
- 15-2099 Mathematical Science Occupations, All Other

¹ R&D breakout- use only in NAICS 6112 and 6113

17-0000 Architecture and Engineering Occupations

17-1000 Architects, Surveyors, and Cartographers

17-1011	Architects, Except Landscape and Naval
17-1012	Landscape Architects
17-1021	Cartographers and Photogrammetrists
17-1022	Surveyors

17-2000 Engineers

17-2011	Aerospace Engineers
17-2021	Agricultural Engineers
17-2031	Bioengineers and Biomedical Engineers
17-2041	Chemical Engineers
17-2051	Civil Engineers
17-2052	Civil Engineers, Non-R&D
17-2053	Civil Engineers, R&D
17-2061	Computer Hardware Engineers
17-2062	Computer Hardware Engineers, Non-R&D
17-2063	Computer Hardware Engineers, R&D
17-2071	Electrical Engineers
17-2073	Electrical Engineers, Non-R&D
17-2074	Electrical Engineers, R&D
17-2072	Electronics Engineers, Except Computer
17-2075	Electronics Engineers, Except Computer, Non-R&D
17-2076	Electronics Engineers, Except Computer, R&D
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
17-2121	Marine Engineers and Naval Architects
17-2131	Materials Engineers
17-2141	Mechanical Engineers
17-2143	Mechanical Engineers, Non-R&D
17-2144	Mechanical Engineers, R&D
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers
17-2161	Nuclear Engineers
17-2171	Petroleum Engineers
17-2199	Engineers, All Other

17-0000 Architecture and Engineering Occupations

17-3000 Drafters, Engineering Technicians, 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 Technologists and Technicians, Except Drafters

- 17-3021 Aerospace Engineering and Operations Technologists and Technicians
- 17-3022 Civil Engineering Technologists and Technicians
- 17-3023 Electrical and Electronic Engineering Technologists and Technicians
- 17-3024 Electro-Mechanical and Mechatronics Technologists and Technicians
- 17-3025 Environmental Engineering Technologists and Technicians
- 17-3026 Industrial Engineering Technologists and Technicians
- 17-3027 Mechanical Engineering Technologists and Technicians
- 17-3028 Calibration Technologists and Technicians
- 17-3029 Engineering Technologists and 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

- 19-1011 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
- 19-1031 Conservation Scientists
- 19-1032 Foresters
- 19-1041 Epidemiologists
- 19-1042 Medical Scientists, Except Epidemiologists
- 19-1099 Life Scientists, All Other

19-2000

Physical Scientists

- 19-2011 Astronomers
- 19-2012 Physicists
- 19-2021 Atmospheric and Space Scientists
- 19-2031 Chemists
- 19-2032 Materials Scientists
- 19-2041 Environmental Scientists and Specialists, Including Health
- 19-2042 Geoscientists, Except Hydrologists and Geographers
- 19-2043 Hydrologists
- 19-2099 Physical Scientists, All Other

19-3000

Social Scientists and Related Workers

- 19-3011 Economists
- 19-3022 Survey Researchers

19-3030

Psychologists

- 19-3032 Industrial-Organizational Psychologists
- 19-3033 Clinical and Counseling Psychologists
- 19-3034 School Psychologists
- 19-3039 Psychologists, All Other
- 19-3041 Sociologists
- 19-3051 Urban and Regional Planners
- 19-3091 Anthropologists and Archeologists
- 19-3092 Geographers
- 19-3093 Historians
- 19-3094 Political Scientists
- 19-3099 Social Scientists and Related Workers, All Other

19-0000 Life, Physical, and Social Science Occupations

19-4000 Life, Physical, and Social Science Technicians

19-4010 Agricultural and Food Science Technicians

19-4012 Agricultural Technicians

19-4013 Food Science Technicians

19-4020 Biological Technicians

19-4021 Biological Technicians

19-4031 Chemical Technicians

19-4040 Environmental Science and Geoscience Technicians

19-4042 Environmental Science and Protection Technicians, Including Health

19-4043 Geological Technicians, Except Hydrologic Technicians

19-4044 Hydrologic Technicians

19-4051 Nuclear Technicians

19-4061 Social Science Research Assistants

19-4071 Forest and Conservation Technicians

19-4092 Forensic Science Technicians

19-4099 Life, Physical, and Social Science Technicians, All Other

19-5000 Occupational Health and Safety Specialists and Technicians

19-5011 Occupational Health and Safety Specialists

19-5012 Occupational Health and Safety Technicians

21-0000 Community and Social Service Occupations

21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists
21-1010	Counselors
21-1012	Educational, Guidance, and Career Counselors and Advisors
21-1013	Marriage and Family Therapists
21-1015	Rehabilitation Counselors
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors (OES aggregation to OES-specific code and title)
21-1011	Substance Abuse and Behavioral Disorder Counselors(Optional – estimates rolled up to 21-1018)
21-1014	Mental Health Counselors (Optional – estimates rolled up to 21-1018)
21-1019	Counselors, All Other
21-1020	Social Workers
21-1021	Child, Family, and School Social Workers
21-1022	Healthcare 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 Education Specialists
21-1092	Probation Officers and Correctional Treatment Specialists
21-1093	Social and Human Service Assistants
21-1094	Community Health Workers
21-1099	Community and Social Service Specialists, All Other
21-2000	Religious Workers
21-2011	Clergy
21-2021	Directors, Religious Activities and Education
21-2099	Religious Workers, All Other

23-0000 Legal Occupations

23-1000	Lawyers, Judges, and Related Workers
23-1010	Lawyers and Judicial Law Clerks
23-1011	Lawyers
23-1012	Judicial Law Clerks
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
23-2011	Paralegals and Legal Assistants
23-2090	Miscellaneous Legal Support Workers
23-2093	Title Examiners, Abstractors, and Searchers
23-2099	Legal Support Workers, All Other

25-0000 Educational Instruction and Library Occupations

25-1000

Postsecondary Teachers

- 25-1011 Business Teachers, Postsecondary
- 25-1021 Computer Science Teachers, Postsecondary
- 25-1022 Mathematical Science Teachers, Postsecondary
- 25-1031 Architecture Teachers, Postsecondary
- 25-1032 Engineering Teachers, Postsecondary
- 25-1041 Agricultural Sciences Teachers, Postsecondary
- 25-1042 Biological Science Teachers, Postsecondary
- 25-1043 Forestry and Conservation Science 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
- 25-1071 Health Specialties Teachers, Postsecondary
- 25-1072 Nursing Instructors and Teachers, Postsecondary
- 25-1081 Education Teachers, Postsecondary
- 25-1082 Library Science 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, History, 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
- 25-1192 Family and Consumer Sciences Teachers, Postsecondary
- 25-1193 Recreation and Fitness Studies Teachers, Postsecondary
- 25-1194 Career/Technical Education Teachers, Postsecondary
- 25-1199 Postsecondary Teachers, All Other

25-0000 Educational Instruction and Library Occupations

25-2000	Preschool, Elementary, Middle, Secondary, and Special Education Teachers
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 Career/Technical Education
25-2023	Career/Technical Education Teachers, Middle School
25-2031	Secondary School Teachers, Except Special and Career/Technical Education
25-2032	Career/Technical Education Teachers, Secondary School
25-2050	Special Education Teachers
25-2051	Special Education Teachers, Preschool
25-2052	Special Education Teachers, Kindergarten and Elementary School (OES aggregation to OES-specific code and title)
25-2055	Special Education Teachers, Kindergarten (Optional – estimates rolled up to 25-2052)
25-2056	Special Education Teachers, Elementary School (Optional – estimates rolled up to 25-2052)
25-2057	Special Education Teachers, Middle School
25-2058	Special Education Teachers, Secondary School
25-2059	Special Education Teachers, All Other
25-3000	Other Teachers and Instructors
25-3011	Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors
25-3021	Self-Enrichment Teachers
25-3031	Substitute Teachers, Short-Term
25-3041	Tutors
25-3099	Teachers and Instructors, All Other
25-4000	Librarians, Curators, and Archivists
25-4011	Archivists
25-4012	Curators
25-4013	Museum Technicians and Conservators
25-4022	Librarians and Media Collections Specialists
25-4031	Library Technicians
25-9000	Other Educational Instruction and Library Occupations
25-9021	Farm and Home Management Educators
25-9031	Instructional Coordinators
25-9040	Teaching Assistants
25-9042	Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education
25-9043	Teaching Assistants, Special Education
25-9044	Teaching Assistants, Postsecondary
25-9049	Teaching Assistants, All Other
25-9099	Educational Instruction 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	Special Effects 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
27-2011	Actors
27-2012	Producers and Directors
27-2021	Athletes and Sports Competitors
27-2022	Coaches and Scouts
27-2023	Umpires, Referees, and Other Sports Officials
27-2031	Dancers
27-2032	Choreographers
27-2041	Music Directors and Composers
27-2042	Musicians and Singers
27-2091	Disc Jockeys, Except Radio
27-2099	Entertainers and Performers, Sports and Related Workers, All Other
27-3000	Media and Communication Workers
27-3011	Broadcast Announcers and Radio Disc Jockeys
27-3023	News Analysts, Reporters, and Journalists
27-3031	Public Relations Specialists
27-3040	Writers and Editors
27-3041	Editors
27-3042	Technical Writers
27-3043	Writers and Authors
27-3091	Interpreters and Translators
27-3092	Court Reporters and Simultaneous Captioners
27-3099	Media and Communication Workers, All Other
27-4000	Media and Communication Equipment Workers
27-4010	Broadcast, Sound, and Lighting Technicians
27-4011	Audio and Video Technicians
27-4012	Broadcast Technicians
27-4014	Sound Engineering Technicians
27-4015	Lighting Technicians
27-4021	Photographers
27-4031	Camera Operators, Television, Video, and Film
27-4032	Film and Video Editors
27-4099	Media and Communication Equipment Workers, All Other

29-0000 Healthcare Practitioners and Technical Occupations

29-1000

Healthcare Diagnosing or Treating Practitioners

29-1011

Chiropractors

29-1020

Dentists

29-1021

Dentists, General

29-1022

Oral and Maxillofacial Surgeons

29-1023

Orthodontists

29-1024

Prosthodontists

29-1029

Dentists, All Other Specialists

29-1031

Dietitians and Nutritionists

29-1041

Optometrists

29-1051

Pharmacists

29-1071

Physician Assistants

29-1081

Podiatrists

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

29-1128

Exercise Physiologists

29-1129

Therapists, All Other

29-1131

Veterinarians

29-1141

Registered Nurses

29-1151

Nurse Anesthetists

29-1161

Nurse Midwives

29-1171

Nurse Practitioners

29-1181

Audiologists

29-1210

Physicians

29-1211

Anesthesiologists

29-1212

Cardiologists

29-1213

Dermatologists

29-1214

Emergency Medicine Physicians

29-1215

Family Medicine Physicians

29-1216

General Internal Medicine Physicians

29-1217

Neurologists

29-1218

Obstetricians and Gynecologists

29-1221

Pediatricians, General

29-1222

Physicians, Pathologists

29-1223

Psychiatrists

29-1224

Radiologists

29-1229

Physicians, All Other

29-1240**Surgeons**

- 29-1241 Ophthalmologists, Except Pediatric
- 29-1242 Orthopedic Surgeons, Except Pediatric
- 29-1243 Pediatric Surgeons
- 29-1249 Surgeons, All Other
- 29-1291 Acupuncturists
- 29-1292 Dental Hygienists
- 29-1299 Healthcare Diagnosing or Treating Practitioners, All Other

29-2000**Health Technologists and Technicians**

29-2010

Clinical Laboratory Technologists and Technicians (OES aggregation to SOC broad occupation)

- 29-2011 Medical and Clinical Laboratory Technologists (Optional – estimates rolled up to 29-2010)
- 29-2012 Medical and Clinical Laboratory Technicians (Optional – estimates rolled up to 29-2010)

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
- 29-2035 Magnetic Resonance Imaging Technologists
- 29-2036 Medical Dosimetrists
- 29-2042 Emergency Medical Technicians
- 29-2043 Paramedics

29-2050**Health Practitioner Support Technologists and Technicians**

- 29-2051 Dietetic Technicians
- 29-2052 Pharmacy Technicians
- 29-2053 Psychiatric Technicians
- 29-2055 Surgical Technologists
- 29-2056 Veterinary Technologists and Technicians
- 29-2057 Ophthalmic Medical Technicians
- 29-2061 Licensed Practical and Licensed Vocational Nurses
- 29-2072 Medical Records Specialists
- 29-2081 Opticians, Dispensing
- 29-2091 Orthotists and Prosthetists
- 29-2092 Hearing Aid Specialists
- 29-2099 Health Technologists and Technicians, All Other

29-9000**Other Healthcare Practitioners and Technical Occupations**

- 29-9021 Health Information Technologists and Medical Registrars
- 29-9091 Athletic Trainers
- 29-9092 Genetic Counselors
- 29-9093 Surgical Assistants
- 29-9099 Healthcare Practitioners and Technical Workers, All Other

31-0000 Healthcare Support Occupations

31-1100 Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides

31-1120 Home Health and Personal Care Aides (OES aggregation to SOC broad occupation)

31-1121 Home Health Aides (Optional – estimates rolled up to 31-1120)

31-1122 Personal Care Aides (Optional – estimates rolled up to 31-1120)

31-1130 Nursing Assistants, Orderlies, and Psychiatric Aides

31-1131 Nursing Assistants

31-1132 Orderlies

31-1133 Psychiatric Aides

31-2000 Occupational Therapy and Physical Therapist Assistants and Aides

31-2010 Occupational Therapy and Physical Therapist Assistants and Aides

31-2011 Occupational Therapy Assistants

31-2012 Occupational Therapy Aides

31-2021 Physical Therapist Assistants

31-2022 Physical Therapist Aides

31-9000 Other Healthcare Support Occupations

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

31-9097 Phlebotomists

31-9099 Healthcare Support Workers, All Other

33-0000 Protective Service Occupations

33-1000 Supervisors of Protective Service Workers

33-1011	First-Line Supervisors of Correctional Officers
33-1012	First-Line Supervisors of Police and Detectives
33-1021	First-Line Supervisors of Firefighting and Prevention Workers
33-1091	First-Line Supervisors of Security Workers
33-1099	First-Line Supervisors of Protective Service Workers, All Other

33-2000 Firefighting and Prevention Workers

33-2011	Firefighters
33-2021	Fire Inspectors and Investigators
33-2022	Forest Fire Inspectors and Prevention Specialists

33-3000 Law Enforcement Workers

33-3011	Bailiffs
33-3012	Correctional Officers and Jailers
33-3021	Detectives and Criminal Investigators
33-3031	Fish and Game Wardens
33-3041	Parking Enforcement Workers
33-3051	Police and Sheriff's Patrol Officers
33-3052	Transit and Railroad Police

33-9000 Other Protective Service Workers

33-9011	Animal Control Workers
33-9021	Private Detectives and Investigators
33-9031	Gambling Surveillance Officers and Gambling Investigators
33-9032	Security Guards
33-9091	Crossing Guards and Flaggers
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
33-9093	Transportation Security Screeners
33-9094	School Bus Monitors
33-9099	Protective Service Workers, All Other

35-0000 Food Preparation and Serving Related Occupations

35-1000 Supervisors of Food Preparation and Serving Workers

- 35-1011 Chefs and Head Cooks
- 35-1012 First-Line Supervisors 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
 - 35-2021 Food Preparation Workers

35-3000 Food and Beverage Serving Workers

- 35-3011 Bartenders
- 35-3023 Fast Food and Counter Workers
- 35-3031 Waiters and Waitresses
- 35-3041 Food Servers, Nonrestaurant
- 35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers
- 35-9021 Dishwashers
- 35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
- 35-9099 Food Preparation and Serving Related Workers, All Other

37-0000 Building and Grounds Cleaning and Maintenance Occupations

37-1000 Supervisors of Building and Grounds Cleaning and Maintenance Workers

- 37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers
- 37-1012 First-Line Supervisors 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
 - 37-2021 Pest Control Workers

37-3000 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 of Personal Care and Service Workers

- 39-1013 First-Line Supervisors of Gambling Services Workers
- 39-1014 First-Line Supervisors of Entertainment and Recreation Workers, Except Gambling Services
- 39-1022 First-Line Supervisors of Personal Service Workers

39-2000

Animal Care and Service Workers

- 39-2011 Animal Trainers
- 39-2021 Animal Caretakers

39-3000

Entertainment Attendants and Related Workers

- 39-3011 Gambling Dealers
- 39-3012 Gambling and Sports Book Writers and Runners
- 39-3019 Gambling Service Workers, All Other
- 39-3021 Motion Picture Projectionists
- 39-3031 Ushers, Lobby Attendants, and Ticket Takers
- 39-3091 Amusement and Recreation Attendants
- 39-3092 Costume Attendants
- 39-3093 Locker Room, Coatroom, and Dressing Room Attendants
- 39-3099 Entertainment Attendants and Related Workers, All Other

39-4000

Funeral Service Workers

- 39-4011 Embalmers
- 39-4012 Crematory Operators
- 39-4021 Funeral Attendants
- 39-4031 Morticians, Undertakers, and Funeral Arrangers

39-5000

Personal Appearance Workers

- 39-5011 Barbers
- 39-5012 Hairdressers, Hairstylists, and Cosmetologists
- 39-5091 Makeup Artists, Theatrical and Performance
- 39-5092 Manicurists and Pedicurists
- 39-5093 Shampooers
- 39-5094 Skincare Specialists

39-6000

Baggage Porters, Bellhops, and Concierges

- 39-6011 Baggage Porters and Bellhops
- 39-6012 Concierges

39-7000

Tour and Travel Guides

- 39-7010 **Tour and Travel Guides (OES aggregation to SOC broad occupation)**

39-7011 Tour Guides and Escorts (Optional – estimates rolled up to 39-7010)

39-7012 Travel Guides (Optional – estimates rolled up to 39-7010)

39-9000

Other Personal Care and Service Workers

- 39-9011 Childcare Workers
- 39-9031 Exercise Trainers and Group Fitness Instructors
- 39-9032 Recreation Workers
- 39-9041 Residential Advisors
- 39-9099 Personal Care and Service Workers, All Other

41-0000 Sales and Related Occupations

41-1000

Supervisors of Sales Workers

- 41-1011 First-Line Supervisors of Retail Sales Workers
- 41-1012 First-Line Supervisors of Non-Retail Sales Workers

41-2000

Retail Sales Workers

- 41-2011 Cashiers
- 41-2012 Gambling Change Persons and Booth Cashiers
- 41-2021 Counter and Rental Clerks
- 41-2022 Parts Salespersons
- 41-2031 Retail Salespersons

41-3000

Sales Representatives, Services

- 41-3011 Advertising Sales Agents
- 41-3021 Insurance Sales Agents
- 41-3031 Securities, Commodities, and Financial Services Sales Agents
- 41-3041 Travel Agents
- 41-3091 Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel

41-4000

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

- 41-9011 Demonstrators and Product Promoters
- 41-9012 Models
- 41-9021 Real Estate Brokers
- 41-9022 Real Estate Sales Agents
- 41-9031 Sales Engineers
- 41-9041 Telemarketers
- 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 of Office and Administrative Support Workers
43-1011	First-Line Supervisors of Office and Administrative Support Workers
43-2000	Communications Equipment Operators
43-2011	Switchboard Operators, Including Answering Service
43-2021	Telephone Operators
43-2099	Communications Equipment Operators, All Other
43-3000	Financial Clerks
43-3011	Bill and Account Collectors
43-3021	Billing and Posting Clerks
43-3031	Bookkeeping, Accounting, and Auditing Clerks
43-3041	Gambling Cage Workers
43-3051	Payroll and Timekeeping Clerks
43-3061	Procurement Clerks
43-3071	Tellers
43-3099	Financial Clerks, All Other
43-4000	Information and Record Clerks
43-4011	Brokerage Clerks
43-4021	Correspondence Clerks
43-4031	Court, Municipal, and License Clerks
43-4041	Credit Authorizers, Checkers, and Clerks
43-4051	Customer Service Representatives
43-4061	Eligibility Interviewers, Government Programs
43-4071	File Clerks
43-4081	Hotel, Motel, and Resort Desk Clerks
43-4111	Interviewers, Except Eligibility and Loan
43-4121	Library Assistants, Clerical
43-4131	Loan Interviewers and Clerks
43-4141	New Accounts Clerks
43-4151	Order Clerks
43-4161	Human Resources Assistants, Except Payroll and Timekeeping
43-4171	Receptionists and Information Clerks
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks
43-4199	Information and Record Clerks, All Other
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers
43-5011	Cargo and Freight Agents
43-5021	Couriers and Messengers
43-5031	Public Safety Telecommunicators
43-5032	Dispatchers, Except Police, Fire, and Ambulance
43-5041	Meter Readers, Utilities
43-5051	Postal Service Clerks
43-5052	Postal Service Mail Carriers
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators
43-5061	Production, Planning, and Expediting Clerks
43-5071	Shipping, Receiving, and Inventory Clerks
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping
43-6000	Secretaries and Administrative Assistants
43-6011	Executive Secretaries and Executive Administrative Assistants
43-6012	Legal Secretaries and Administrative Assistants
43-6013	Medical Secretaries and Administrative Assistants
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
43-9000	Other Office and Administrative Support Workers
43-9021	Data Entry Keyers
43-9022	Word Processors and Typists
43-9031	Desktop Publishers
43-9041	Insurance Claims and Policy Processing Clerks
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service
43-9061	Office Clerks, General
43-9071	Office Machine Operators, Except Computer
43-9081	Proofreaders and Copy Markers
43-9111	Statistical Assistants
43-9199	Office and Administrative Support Workers, All Other

45-0000 Farming, Fishing, and Forestry Occupations

45-1000

Supervisors of Farming, Fishing, and Forestry Workers

45-1011

First-Line Supervisors of Farming, Fishing, and Forestry Workers

45-2000

Agricultural Workers

45-2011

Agricultural Inspectors

45-2021

Animal Breeders

45-2041

Graders and Sorters, Agricultural Products

45-2090

Miscellaneous Agricultural Workers

45-2091

Agricultural Equipment Operators

45-2092

Farmworkers and Laborers, Crop, Nursery, and Greenhouse

45-2093

Farmworkers, Farm, Ranch, and Aquacultural Animals

45-2099

Agricultural Workers, All Other

45-3000

Fishing and Hunting Workers

45-3031

Fishing and Hunting Workers

45-4000

Forest, Conservation, and Logging 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

47-0000 Construction and Extraction Occupations

47-1000

Supervisors of Construction and Extraction Workers

47-1011

First-Line Supervisors of Construction Trades and Extraction Workers

47-2000

Construction Trades Workers

47-2011

Boilermakers

47-2021

Brickmasons and Blockmasons

47-2022

Stonemasons

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 Stone Setters

47-2051

Cement Masons and Concrete Finishers

47-2053

Terrazzo Workers and Finishers

47-2061

Construction Laborers

47-2070

Construction Equipment Operators

47-2071

Paving, Surfacing, and Tamping Equipment Operators

47-2072

Pile Driver Operators

47-2073

Operating Engineers and Other Construction Equipment Operators

47-2081

Drywall and Ceiling Tile Installers

47-2082

Tapers

47-2111

Electricians

47-2121

Glaziers

47-2131

Insulation Workers, Floor, Ceiling, and Wall

47-2132

Insulation Workers, Mechanical

47-2141

Painters, Construction and Maintenance

47-2142

Paperhangers

47-2151

Pipelayers

47-2152

Plumbers, Pipefitters, and Steamfitters

47-2161

Plasterers and Stucco Masons

47-2171

Reinforcing Iron and Rebar Workers

47-2181

Roofers

47-2211

Sheet Metal Workers

47-2221

Structural Iron and Steel Workers

47-2231

Solar Photovoltaic Installers

47-3000**Helpers, Construction Trades**

47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
47-3012	Helpers--Carpenters
47-3013	Helpers--Electricians
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters
47-3016	Helpers--Roofers
47-3019	Helpers, Construction Trades, All Other

47-4000**Other Construction and Related Workers**

47-4011	Construction and Building Inspectors
47-4021	Elevator and Escalator Installers and Repairers
47-4031	Fence Erectors
47-4041	Hazardous Materials Removal Workers
47-4051	Highway Maintenance Workers
47-4061	Rail-Track Laying and Maintenance Equipment Operators
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners
47-4090	Miscellaneous Construction and Related Workers (OES aggregation to SOC broad occupation)
47-4091	Segmental Pavers (Optional – estimates rolled up to 47-4090)
47-4099	Construction and Related Workers, All Other (Optional – estimates rolled up to 47-4090)

47-5000**Extraction Workers**

47-5011	Derrick Operators, Oil and Gas
47-5012	Rotary Drill Operators, Oil and Gas
47-5013	Service Unit Operators, Oil and Gas
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining
47-5023	Earth Drillers, Except Oil and Gas
47-5032	Explosives Workers, Ordnance Handling Experts, and Blasters
47-5040	Underground Mining Machine Operators
47-5041	Continuous Mining Machine Operators
47-5043	Roof Bolters, Mining
47-5044	Loading and Moving Machine Operators, Underground Mining
47-5049	Underground Mining Machine Operators, All Other
47-5051	Rock Splitters, Quarry
47-5071	Roustabouts, Oil and Gas
47-5081	Helpers--Extraction Workers
47-5099	Extraction Workers, All Other

49-0000 Installation, Maintenance, and Repair Occupations

49-1000	Supervisors of Installation, Maintenance, and Repair Workers
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers
49-2011	Computer, Automated Teller, and Office Machine Repairers
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers
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	Audiovisual Equipment Installers and Repairers
49-2098	Security and Fire Alarm Systems Installers
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers
49-3011	Aircraft Mechanics and Service Technicians
49-3021	Automotive Body and Related Repairers
49-3022	Automotive Glass Installers and Repairers
49-3023	Automotive Service Technicians and Mechanics
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists
49-3040	Heavy Vehicle & Mobile Equipment Service Technicians and Mechanics
49-3041	Farm Equipment Mechanics and Service Technicians
49-3042	Mobile Heavy Equipment Mechanics, Except Engines
49-3043	Rail Car Repairers
49-3050	Small Engine Mechanics
49-3051	Motorboat Mechanics and Service Technicians
49-3052	Motorcycle Mechanics
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics
49-3091	Bicycle Repairers
49-3092	Recreational Vehicle Service Technicians
49-3093	Tire Repairers and Changers

49-9000**Other Installation, Maintenance, and Repair Occupations**

- 49-9011 Mechanical Door Repairers
- 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door
- 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
- 49-9031 Home Appliance Repairers

49-9040**Industrial Machinery Installation, Repair, and Maintenance Workers**

- 49-9041 Industrial Machinery Mechanics
- 49-9043 Maintenance Workers, Machinery
- 49-9044 Millwrights
- 49-9045 Refractory Materials Repairers, Except Brickmasons
- 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 and Clock Repairers
- 49-9069 Precision Instrument and Equipment Repairers, All Other
- 49-9071 Maintenance and Repair Workers, General
- 49-9081 Wind Turbine Service Technicians

49-9090**Miscellaneous Installation, Maintenance, and Repair Workers**

- 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers
- 49-9092 Commercial Divers
- 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 of Production Workers

51-1011 First-Line Supervisors of Production and Operating Workers

51-2000

Assemblers and Fabricators

51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers

51-2021 Coil Winders, Tapers, and Finishers

51-2028 **Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers (OES aggregation to OES-specific code and title)**

51-2022 Electrical and Electronic Equipment Assemblers (Optional – estimates rolled up to 51-2028)

51-2023 Electromechanical Equipment Assemblers (Optional – estimates rolled up to 51-2028)

51-2031 Engine and Other Machine Assemblers

51-2041 Structural Metal Fabricators and Fitters

51-2051 Fiberglass Laminators and Fabricators

51-2061 Timing Device Assemblers and Adjusters

51-2090 **Miscellaneous Assemblers and Fabricators (OES aggregation to SOC broad occupation)**

51-2092 Team Assemblers (Optional – estimates rolled up to 51-2090)

51-2099 Assemblers and Fabricators, All Other (Optional – estimates rolled up to 51-2090)

51-3000

Food Processing Workers

51-3011 Bakers

51-3021 Butchers and Meat Cutters

51-3022 Meat, Poultry, and Fish Cutters and Trimmers

51-3023 Slaughterers and Meat Packers

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

51-3099 Food Processing Workers, All Other

51-4000

Metal Workers and Plastic Workers

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

51-4031 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

51-0000 Production Occupations (con't)

51-4041	Machinists
51-4051	Metal-Refining Furnace Operators and Tenders
51-4052	Pourers and Casters, Metal
51-4061	Model Makers, Metal and Plastic
51-4062	Patternmakers, Metal and Plastic
51-4071	Foundry Mold and Coremakers
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4111	Tool and Die Makers
51-4121	Welders, Cutters, Solderers, and Brazers
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
51-4192	Layout Workers, Metal and Plastic
51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic
51-4194	Tool Grinders, Filers, and Sharpeners
51-4199	Metal Workers and Plastic Workers, All Other

51-5100

Printing Workers

51-5111	Prepress Technicians and Workers
51-5112	Printing Press Operators
51-5113	Print Binding and Finishing Workers

51-6000

Textile, Apparel, and Furnishings Workers

51-6011	Laundry and Dry-Cleaning Workers
51-6021	Pressers, Textile, Garment, and Related Materials
51-6031	Sewing Machine Operators
51-6041	Shoe and Leather Workers and Repairers
51-6042	Shoe Machine Operators and Tenders
51-6051	Sewers, Hand
51-6052	Tailors, Dressmakers, and Custom Sewers
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, & Drawing Out Mach. Setters, Operators, & Tenders
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
51-6092	Fabric and Apparel Patternmakers
51-6093	Upholsterers
51-6099	Textile, Apparel, and Furnishings Workers, All Other

51-7000

Woodworkers

51-7011	Cabinetmakers and Bench Carpenters
51-7021	Furniture Finishers
51-7031	Model Makers, Wood
51-7032	Patternmakers, Wood
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing
51-7099	Woodworkers, All Other

51-0000 Production Occupations

51-8000

Plant and System Operators

- 51-8011 Nuclear Power Reactor Operators
- 51-8012 Power Distributors and Dispatchers
- 51-8013 Power Plant Operators
- 51-8021 Stationary Engineers and Boiler Operators
- 51-8031 Water and Wastewater Treatment Plant and System Operators
- 51-8091 Chemical Plant and System Operators
- 51-8092 Gas Plant Operators
- 51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers
- 51-8099 Plant and System Operators, All Other

51-9000

Other Production Occupations

- 51-9011 Chemical Equipment Operators and Tenders
- 51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders
- 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
- 51-9031 Cutters and Trimmers, Hand
- 51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders
- 51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
- 51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
- 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers
- 51-9071 Jewelers and Precious Stone and Metal Workers

51-9080

Dental & Ophthalmic Laboratory Techs & Medical Appliance Techs

- 51-9081 Dental Laboratory Technicians
- 51-9082 Medical Appliance Technicians
- 51-9083 Ophthalmic Laboratory Technicians
- 51-9111 Packaging and Filling Machine Operators and Tenders
- 51-9123 Painting, Coating, and Decorating Workers
- 51-9124 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
- 51-9141 Semiconductor Processing Technicians
- 51-9151 Photographic Process Workers and Processing Machine Operators
- 51-9161 Computer Numerically Controlled Tool Operators
- 51-9162 Computer Numerically Controlled Tool Programmers

51-9190

Miscellaneous Production Workers

- 51-9191 Adhesive Bonding Machine Operators and Tenders
- 51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
- 51-9193 Cooling and Freezing Equipment Operators and Tenders
- 51-9194 Etchers and Engravers
- 51-9195 Molders, Shapers, and Casters, Except Metal and Plastic
- 51-9196 Paper Goods Machine Setters, Operators, and Tenders
- 51-9197 Tire Builders
- 51-9198 Helpers--Production Workers
- 51-9199 Production Workers, All Other

53-0000 Transportation and Material Moving Occupations

53-1000 Supervisors of Transportation and Material Moving Workers

- 53-1041 Aircraft Cargo Handling Supervisors
- 53-1044 First-Line Supervisors of Passenger Attendants
- 53-1048 **First-Line Supervisors of Transportation and Material- Moving workers, Except Aircraft Cargo Handling Supervisors and First-Line Supervisors of Passenger Attendants (OES aggregation to OES-specific code and title)**
- 53-1042 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand (Optional – estimates rolled up to 53-1048)
- 53-1043 First-Line Supervisors of Material-Moving Machine and Vehicle Operators (Optional – estimates rolled up to 53-1048)
- 53-1049 First-Line Supervisors of Transportation Workers, All Other

53-2000 Air Transportation Workers

- 53-2011 Airline Pilots, Copilots, and Flight Engineers
- 53-2012 Commercial Pilots
- 53-2021 Air Traffic Controllers
- 53-2022 Airfield Operations Specialists
- 53-2031 Flight Attendants

53-3000 Motor Vehicle Operators

- 53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
- 53-3030 Driver/Sales Workers and Truck Drivers**
- 53-3031 Driver/Sales Workers
- 53-3032 Heavy and Tractor-Trailer Truck Drivers
- 53-3033 Light Truck Drivers
- 53-3050 Passenger Vehicle Drivers**
- 53-3051 Bus Drivers, School
- 53-3052 Bus Drivers, Transit and Intercity
- 53-3053 Shuttle Drivers and Chauffeurs
- 53-3054 Taxi Drivers
- 53-3099 Motor Vehicle Operators, All Other

53-4000 Rail Transportation Workers

- 53-4011 Locomotive Engineers
- 53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers
- 53-4022 Railroad Brake, Signal, and Switch Operators and Locomotive Firers
- 53-4031 Railroad Conductors and Yardmasters
- 53-4041 Subway and Streetcar Operators
- 53-4099 Rail Transportation Workers, All Other

(over)

53-0000 Transportation and Material Moving Occupations

53-5000 Water Transportation Workers

53-5011	Sailors and Marine Oilers
53-5021	Captains, Mates, and Pilots of Water Vessels
53-5022	Motorboat Operators
53-5031	Ship Engineers

53-6000 Other Transportation Workers

53-6011	Bridge and Lock Tenders
53-6021	Parking Attendants
53-6031	Automotive and Watercraft Service Attendants
53-6032	Aircraft Service Attendants
53-6041	Traffic Technicians
53-6051	Transportation Inspectors
53-6061	Passenger Attendants
53-6099	Transportation Workers, All Other

53-7000 Material Moving Workers

53-7011	Conveyor Operators and Tenders
53-7021	Crane and Tower Operators
53-7031	Dredge Operators
53-7041	Hoist and Winch Operators
53-7051	Industrial Truck and Tractor Operators
53-7060	Laborers and Material Movers
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
53-7065	Stockers and Order Fillers
53-7070	Pumping Station Operators
53-7071	Gas Compressor and Gas Pumping Station Operators
53-7072	Pump Operators, Except Wellhead Pumps
53-7073	Wellhead Pumpers
53-7081	Refuse and Recyclable Material Collectors
53-7121	Tank Car, Truck, and Ship Loaders
53-7199	Material Moving Workers, All Other