#### 2018 OEWS (Occupational) Structure

For use with 2021 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	<b>Building and Grounds Cleaning and Maintenance Occupations</b>
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
15-1	217 Computer Systems Analysts, Non R&D <sup>1</sup>
15-1	218 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
15-1	247 Computer Network Architects, Non R&D
15-1	248 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
15-1	293 Computer Programmers, Non R&D
15-1	294 Computer Programmers, R&D
15-1252	Software Developers
15-1	295 Software Developers, Non R&D
15-1	296 Software Developers, R&D
15-1253	Software Quality Assurance Analysts and Testers
15-1	297 Software Quality Assurance Analysts and Testers, Non R&D
15-1	298 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  Data Scientists
15-2051	Data Scientists
15-2099	Mathematical Science Occupations, All Other

<sup>&</sup>lt;sup>1</sup> R&D breakout- use only in NAICS 6112 and 6113

# **17-0000** Architecture and Engineering Occupations

17-1000	Arch	nitects, Surveyors, and Cartographers
17-1011		Architects, Except Landscape and Naval
17-1012		Landscape Architects
17-1021		Cartographers and Photogrammetrists
17-1022		Surveyors
17-2000	Engi	neers
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** Mechanical Drafters 17-3013 17-3019 Drafters, All Other 17-3020 **Engineering Technologists and Technicians, Except Drafters** 17-3021 Aerospace Engineering and Operations Technologists and Technicians Civil Engineering Technologists and Technicians 17-3022 17-3023 Electrical and Electronic Engineering Technologists and Technicians Electro-Mechanical and Mechatronics Technologists and Technicians 17-3024 17-3025 **Environmental Engineering Technologists and Technicians** Industrial Engineering Technologists and Technicians 17-3026 17-3027 Mechanical Engineering Technologists and Technicians 17-3028 Calibration Technologists and Technicians Engineering Technologists and Technicians, Except Drafters, All Other 17-3029 17-3030 **Surveying and Mapping Technicians**

**Surveying and Mapping Technicians** 

17-3031

# 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 Reli	gious Workers
21-2011	Clergy
21-2021	Directors, Religious Activities and Education

Religious Workers, All Other

21-2099

# 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
23 3311	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,
23 30 12	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
25 5055	Laddational modification and Library Workers, 7 in 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	<b>Healthcare Diagnosing or Treating Practitioners</b>
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	0	Nursing Assistants, Orderlies, and Psychiatric Aides
31-1131		Nursing Assistants
31-1132		Orderlies
31-1133		Psychiatric Aides
31-2000	Оссі	upational Therapy and Physical Therapist Assistants and Aides
31-2010	0	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	Othe	er Healthcare Support Occupations
31-9011		Massage Therapists
31-9090	0	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

37-1011 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 Service
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
	Data Fata Walana
43-9021	Data Entry Keyers
43-9022	Word Processors and Typists
43-9022 43-9031	Word Processors and Typists Desktop Publishers
43-9022 43-9031 43-9041	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks
43-9022 43-9031 43-9041 43-9051	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service
43-9022 43-9031 43-9041 43-9051 43-9061	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service Office Clerks, General
43-9022 43-9031 43-9041 43-9051 43-9061 43-9071	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service Office Clerks, General Office Machine Operators, Except Computer
43-9022 43-9031 43-9041 43-9051 43-9061 43-9071 43-9081	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service Office Clerks, General Office Machine Operators, Except Computer Proofreaders and Copy Markers
43-9022 43-9031 43-9041 43-9051 43-9061 43-9071 43-9081 43-9111	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service Office Clerks, General Office Machine Operators, Except Computer Proofreaders and Copy Markers Statistical Assistants
43-9022 43-9031 43-9041 43-9051 43-9061 43-9071 43-9081	Word Processors and Typists Desktop Publishers Insurance Claims and Policy Processing Clerks Mail Clerks and Mail Machine Operators, Except Postal Service Office Clerks, General Office Machine Operators, Except Computer Proofreaders and Copy Markers

## 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	HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
47-3012	HelpersCarpenters
47-3013	HelpersElectricians
47-3014	HelpersPainters, Paperhangers, Plasterers, and Stucco Masons
47-3015	HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters
47-3016	HelpersRoofers
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	HelpersExtraction 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					
49-3051 49-3052	Motorboat Mechanics and Service Technicians  Motorcycle Mechanics					
49-3052	Motorcycle Mechanics					
49-3052 49-3053	Motorcycle Mechanics Outdoor Power Equipment and Other Small Engine Mechanics					

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	HelpersInstallation, 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	Asse	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	d 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	Meta	al 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 51-4071	Patternmakers, Metal and Plastic
51-4071	Foundry Mold and Coremakers  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	
21-0031	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	HelpersProduction Workers
51-9199	Production Workers, All Other

# **53-0000** Transportation and Material Moving Occupations

53-1000	Sup	ervisors 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, Exc Aircraft Cargo Handling Supervisors and First-Line Supervisors of Passen 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 Operato (Optional – estimates rolled up to 53-1048)	ors
53-1049		First-Line Supervisors of Transportation Workers, All Other	
53-2000	Air 7	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	Mot	tor 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 Pumpers
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