

Table A-2 Standard Occupational Codes (SOC)

SOC	Occupation
11-0000	Management Occupations
11-1011	Chief Executives
11-1021	General and Operations Managers
11-1031	Legislators
11-2011	Advertising and Promotions Managers
11-2021	Marketing Managers
11-2022	Sales Managers
11-2031	Public Relations Managers
11-3011	Administrative Services Managers
11-3021	Computer and Information Systems Managers
11-3031	Financial Managers
11-3041	Compensation and Benefits Managers
11-3042	Training and Development Managers
11-3049	Human Resources Managers, All Other
11-3051	Industrial Production Managers
11-3061	Purchasing Managers
11-3071	Transportation, Storage, and Distribution Managers
11-9011	Farm, Ranch, and Other Agricultural Managers
11-9012	Farmers and Ranchers
11-9021	Construction Managers
11-9031	Education Administrators, Preschool and Child Care Center/Program
11-9032	Education Administrators, Elementary and Secondary School
11-9033	Education Administrators, Postsecondary
11-9039	Education Administrators, All Other
11-9041	Engineering Managers
11-9051	Food Service Managers
11-9061	Funeral Directors
11-9071	Gaming Managers
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
11-9199	Managers, All Other
13-0000	Business and Financial Operations Occupations
13-1011	Agents and Business Managers of Artists, Performers, and Athletes
13-1021	Purchasing Agents and Buyers, Farm Products
13-1022	Wholesale and Retail Buyers, Except Farm Products
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products
13-1031	Claims Adjusters, Examiners, and Investigators
13-1032	Insurance Appraisers, Auto Damage
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
13-1051	Cost Estimators
13-1061	Emergency Management Specialists
13-1071	Employment, Recruitment, and Placement Specialists
13-1072	Compensation, Benefits, and Job Analysis Specialists

13-1073 Training and Development Specialists
13-1079 Human Resources, Training, and Labor Relations Specialists, All Other
13-1081 Logisticians
13-1111 Management Analysts
13-1121 Meeting and Convention Planners
13-1199 Business Operations Specialists, All Other
13-2011 Accountants and Auditors
13-2021 Appraisers and Assessors of Real Estate
13-2031 Budget Analysts
13-2041 Credit Analysts
13-2051 Financial Analysts
13-2052 Personal Financial Advisors
13-2053 Insurance Underwriters
13-2061 Financial Examiners
13-2071 Loan Counselors
13-2072 Loan Officers
13-2081 Tax Examiners, Collectors, and Revenue Agents
13-2082 Tax Preparers
13-2099 Financial Specialists, All Other
15-0000 Computer and Mathematical Occupations
15-1011 Computer and Information Scientists, Research
15-1021 Computer Programmers
15-1031 Computer Software Engineers, Applications
15-1032 Computer Software Engineers, Systems Software
15-1041 Computer Support Specialists
15-1051 Computer Systems Analysts
15-1061 Database Administrators
15-1071 Network and Computer Systems Administrators
15-1081 Network Systems and Data Communications Analysts
15-1099 Computer Specialists, All Other
15-2011 Actuaries
15-2021 Mathematicians
15-2031 Operations Research Analysts
15-2041 Statisticians
15-2091 Mathematical Technicians
15-2099 Mathematical Science Occupations, All Other
17-0000 Architecture and Engineering Occupations
17-1011 Architects, Except Landscape and Naval
17-1012 Landscape Architects
17-1021 Cartographers and Photogrammetrists
17-1022 Surveyors
17-2011 Aerospace Engineers
17-2021 Agricultural Engineers
17-2031 Biomedical Engineers
17-2041 Chemical Engineers
17-2051 Civil Engineers
17-2061 Computer Hardware Engineers
17-2071 Electrical Engineers
17-2072 Electronics Engineers, Except Computer
17-2081 Environmental Engineers

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
17-2151 Mining and Geological Engineers, Including Mining Safety Engineers
17-2161 Nuclear Engineers
17-2171 Petroleum Engineers
17-2199 Engineers, All Other
17-3011 Architectural and Civil Drafters
17-3012 Electrical and Electronics Drafters
17-3013 Mechanical Drafters
17-3019 Drafters, All Other
17-3021 Aerospace Engineering and Operations Technicians
17-3022 Civil Engineering Technicians
17-3023 Electrical and Electronic Engineering Technicians
17-3024 Electro-Mechanical Technicians
17-3025 Environmental Engineering Technicians
17-3026 Industrial Engineering Technicians
17-3027 Mechanical Engineering Technicians
17-3029 Engineering Technicians, Except Drafters, All Other
17-3031 Surveying and Mapping Technicians
19-0000 Life, Physical, and Social Science Occupations
19-1011 Animal Scientists
19-1012 Food Scientists and Technologists
19-1013 Soil and Plant 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
19-2011 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
19-3011 Economists
19-3021 Market Research Analysts
19-3022 Survey Researchers
19-3031 Clinical, Counseling, and School Psychologists
19-3032 Industrial-Organizational 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
19-4011 Agricultural and Food Science Technicians
19-4021 Biological Technicians
19-4031 Chemical Technicians
19-4041 Geological and Petroleum Technicians
19-4051 Nuclear Technicians
19-4061 Social Science Research Assistants
19-4091 Environmental Science and Protection Technicians, Including Health
19-4092 Forensic Science Technicians
19-4093 Forest and Conservation Technicians
19-4099 Life, Physical, and Social Science Technicians, All Other
21-0000 Community and Social Services Occupations
21-1011 Substance Abuse and Behavioral Disorder Counselors
21-1012 Educational, Vocational, and School Counselors
21-1013 Marriage and Family Therapists
21-1014 Mental Health Counselors
21-1015 Rehabilitation Counselors
21-1019 Counselors, All Other
21-1021 Child, Family, and School Social Workers
21-1022 Medical and Public Health Social Workers
21-1023 Mental Health and Substance Abuse Social Workers
21-1029 Social Workers, All Other
21-1091 Health Educators
21-1092 Probation Officers and Correctional Treatment Specialists
21-1093 Social and Human Service Assistants
21-1099 Community and Social Service Specialists, All Other
21-2011 Clergy
21-2021 Directors, Religious Activities and Education
21-2099 Religious Workers, All Other
23-0000 Legal Occupations
23-1011 Lawyers
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
23-1022 Arbitrators, Mediators, and Conciliators
23-1023 Judges, Magistrate Judges, and Magistrates
23-2011 Paralegals and Legal Assistants
23-2091 Court Reporters
23-2092 Law Clerks
23-2093 Title Examiners, Abstractors, and Searchers
23-2099 Legal Support Workers, All Other
25-0000 Education, Training, and Library Occupations
25-1011 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
25-1061 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
25-1121 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
25-1191 Graduate Teaching Assistants
25-1192 Home Economics Teachers, Postsecondary
25-1193 Recreation and Fitness Studies Teachers, Postsecondary
25-1194 Vocational Education Teachers, Postsecondary
25-1199 Postsecondary Teachers, All Other
25-2011 Preschool Teachers, Except Special Education
25-2012 Kindergarten Teachers, Except Special Education
25-2021 Elementary School Teachers, Except Special Education
25-2022 Middle School Teachers, Except Special and Vocational Education
25-2023 Vocational Education Teachers, Middle School
25-2031 Secondary School Teachers, Except Special and Vocational Education
25-2032 Vocational Education Teachers, Secondary School
25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School
25-2042 Special Education Teachers, Middle School
25-2043 Special Education Teachers, Secondary School
25-3011 Adult Literacy, Remedial Education, and GED Teachers and Instructors
25-3021 Self-Enrichment Education Teachers
25-3099 Teachers and Instructors, All Other
25-4011 Archivists
25-4012 Curators
25-4013 Museum Technicians and Conservators

25-4021 Librarians
25-4031 Library Technicians
25-9011 Audio-Visual Collections Specialists
25-9021 Farm and Home Management Advisors
25-9031 Instructional Coordinators
25-9041 Teacher Assistants
25-9099 Education, Training, and Library Workers, All Other
27-0000 Arts, Design, Entertainment, Sports, and Media Occupations
27-1011 Art Directors
27-1012 Craft Artists
27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators
27-1014 Multi-Media Artists and Animators
27-1019 Artists and Related Workers, All Other
27-1021 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
27-2011 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
27-2099 Entertainers and Performers, Sports and Related Workers, All Other
27-3011 Radio and Television Announcers
27-3012 Public Address System and Other Announcers
27-3021 Broadcast News Analysts
27-3022 Reporters and Correspondents
27-3031 Public Relations Specialists
27-3041 Editors
27-3042 Technical Writers
27-3043 Writers and Authors
27-3091 Interpreters and Translators
27-3099 Media and Communication Workers, All Other
27-4011 Audio and Video Equipment Technicians
27-4012 Broadcast Technicians
27-4013 Radio Operators
27-4014 Sound Engineering Technicians
27-4021 Photographers
27-4031 Camera Operators, Television, Video, and Motion Picture
27-4032 Film and Video Editors
27-4099 Media and Communication Equipment Workers, All Other
29-0000 Healthcare Practitioner and Technical Occupations

29-1011 Chiropractors
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
29-1061 Anesthesiologists
29-1062 Family and General Practitioners
29-1063 Internists, General
29-1064 Obstetricians and Gynecologists
29-1065 Pediatricians, General
29-1066 Psychiatrists
29-1067 Surgeons
29-1069 Physicians and Surgeons, All Other
29-1071 Physician Assistants
29-1081 Podiatrists
29-1111 Registered Nurses
29-1121 Audiologists
29-1122 Occupational Therapists
29-1123 Physical Therapists
29-1124 Radiation Therapists
29-1125 Recreational Therapists
29-1126 Respiratory Therapists
29-1127 Speech-Language Pathologists
29-1129 Therapists, All Other
29-1131 Veterinarians
29-1199 Health Diagnosing and Treating Practitioners, All Other
29-2011 Medical and Clinical Laboratory Technologists
29-2012 Medical and Clinical Laboratory Technicians
29-2021 Dental Hygienists
29-2031 Cardiovascular Technologists and Technicians
29-2032 Diagnostic Medical Sonographers
29-2033 Nuclear Medicine Technologists
29-2034 Radiologic Technologists and Technicians
29-2041 Emergency Medical Technicians and Paramedics
29-2051 Dietetic Technicians
29-2052 Pharmacy Technicians
29-2053 Psychiatric Technicians
29-2054 Respiratory Therapy Technicians
29-2055 Surgical Technologists
29-2056 Veterinary Technologists and Technicians
29-2061 Licensed Practical and Licensed Vocational Nurses
29-2071 Medical Records and Health Information Technicians
29-2081 Opticians, Dispensing
29-2091 Orthotists and Prosthetists
29-2099 Health Technologists and Technicians, All Other
29-9011 Occupational Health and Safety Specialists

29-9012 Occupational Health and Safety Technicians
29-9091 Athletic Trainers
29-9099 Healthcare Practitioner and Technical Workers, All Other
31-0000 Healthcare Support Occupations
31-1011 Home Health Aides
31-1012 Nursing Aides, Orderlies, and Attendants
31-1013 Psychiatric Aides
31-2011 Occupational Therapist Assistants
31-2012 Occupational Therapist Aides
31-2021 Physical Therapist Assistants
31-2022 Physical Therapist Aides
31-9011 Massage Therapists
31-9091 Dental Assistants
31-9092 Medical Assistants
31-9093 Medical Equipment Preparers
31-9094 Medical Transcriptionists
31-9095 Pharmacy Aides
31-9096 Veterinary Assistants and Laboratory Animal Caretakers
31-9099 Healthcare Support Workers, All Other
33-0000 Protective Service Occupations
33-1011 First-Line Supervisors/Managers of Correctional Officers
33-1012 First-Line Supervisors/Managers of Police and Detectives
33-1021 First-Line Supervisors/Managers of Fire Fighting and Prevention Workers
33-1099 First-Line Supervisors/Managers, Protective Service Workers, All Other
33-2011 Fire Fighters
33-2021 Fire Inspectors and Investigators
33-2022 Forest Fire Inspectors and Prevention Specialists
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
33-9011 Animal Control Workers
33-9021 Private Detectives and Investigators
33-9031 Gaming Surveillance Officers and Gaming Investigators
33-9032 Security Guards
33-9091 Crossing Guards
33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
33-9099 Protective Service Workers, All Other
35-0000 Food Preparation and Serving Related Occupations
35-1011 Chefs and Head Cooks
35-1012 First-Line Supervisors/Managers of Food Preparation and Serving Workers
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
35-3011 Bartenders
35-3021 Combined Food Preparation and Serving Workers, Including Fast Food
35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
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/Managers of Housekeeping and Janitorial Workers
37-1012 First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping 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
37-3011 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
39-1011 Gaming Supervisors
39-1012 Slot Key Persons
39-1021 First-Line Supervisors/Managers of Personal Service Workers
39-2011 Animal Trainers
39-2021 Nonfarm Animal Caretakers
39-3011 Gaming Dealers
39-3012 Gaming and Sports Book Writers and Runners
39-3019 Gaming 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
39-4011 Embalmers
39-4021 Funeral Attendants
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 Skin Care Specialists
39-6011 Baggage Porters and Bellhops
39-6012 Concierges
39-6021 Tour Guides and Escorts
39-6022 Travel Guides
39-6031 Flight Attendants
39-6032 Transportation Attendants, Except Flight Attendants and Baggage Porters

39-9011 Child Care Workers
39-9021 Personal and Home Care Aides
39-9031 Fitness Trainers and Aerobics Instructors
39-9032 Recreation Workers
39-9041 Residential Advisors
39-9099 Personal Care and Service Workers, All Other
41-0000 Sales and Related Occupations
41-1011 First-Line Supervisors/Managers of Retail Sales Workers
41-1012 First-Line Supervisors/Managers of Non-Retail Sales Workers
41-2011 Cashiers
41-2012 Gaming Change Persons and Booth Cashiers
41-2021 Counter and Rental Clerks
41-2022 Parts Salespersons
41-2031 Retail Salespersons
41-3011 Advertising Sales Agents
41-3021 Insurance Sales Agents
41-3031 Securities, Commodities, and Financial Services Sales Agents
41-3041 Travel Agents
41-3099 Sales Representatives, Services, All Other
41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
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
43-1011 First-Line Supervisors/Managers of Office and Administrative Support Workers
43-2011 Switchboard Operators, Including Answering Service
43-2021 Telephone Operators
43-2099 Communications Equipment Operators, All Other
43-3011 Bill and Account Collectors
43-3021 Billing and Posting Clerks and Machine Operators
43-3031 Bookkeeping, Accounting, and Auditing Clerks
43-3041 Gaming Cage Workers
43-3051 Payroll and Timekeeping Clerks
43-3061 Procurement Clerks
43-3071 Tellers
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
43-5011 Cargo and Freight Agents
43-5021 Couriers and Messengers
43-5031 Police, Fire, and Ambulance Dispatchers
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 Traffic Clerks
43-5081 Stock Clerks and Order Fillers
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping
43-6011 Executive Secretaries and Administrative Assistants
43-6012 Legal Secretaries
43-6013 Medical Secretaries
43-6014 Secretaries, Except Legal, Medical, and Executive
43-9011 Computer Operators
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
45-1011 First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers
45-1012 Farm Labor Contractors
45-2011 Agricultural Inspectors
45-2021 Animal Breeders
45-2041 Graders and Sorters, Agricultural Products
45-2091 Agricultural Equipment Operators
45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse
45-2093 Farmworkers, Farm and Ranch Animals
45-2099 Agricultural Workers, All Other
45-3011 Fishers and Related Fishing Workers
45-3021 Hunters and Trappers
45-4011 Forest and Conservation 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
47-1011 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
47-2011 Boilermakers
47-2021 Brickmasons and Blockmasons
47-2022 Stonemasons
47-2031 Carpenters
47-2041 Carpet Installers
47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles
47-2043 Floor Sanders and Finishers
47-2044 Tile and Marble Setters
47-2051 Cement Masons and Concrete Finishers
47-2053 Terrazzo Workers and Finishers
47-2061 Construction Laborers
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
47-3011 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
47-4011 Construction and Building Inspectors
47-4021 Elevator 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
47-4091 Segmental Pavers
47-4099 Construction and Related Workers, All Other
47-5011 Derrick Operators, Oil and Gas

47-5012 Rotary Drill Operators, Oil and Gas
47-5013 Service Unit Operators, Oil, Gas, and Mining
47-5021 Earth Drillers, Except Oil and Gas
47-5031 Explosives Workers, Ordnance Handling Experts, and Blasters
47-5041 Continuous Mining Machine Operators
47-5042 Mine Cutting and Channeling Machine Operators
47-5049 Mining Machine Operators, All Other
47-5051 Rock Splitters, Quarry
47-5061 Roof Bolters, Mining
47-5071 Roustabouts, Oil and Gas
47-5081 Helpers--Extraction Workers
47-5099 Extraction Workers, All Other
49-0000 Installation, Maintenance, and Repair Occupations
49-1011 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
49-2011 Computer, Automated Teller, and Office Machine Repairers
49-2021 Radio Mechanics
49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers
49-2091 Avionics Technicians
49-2092 Electric Motor, Power Tool, and Related Repairers
49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment
49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles
49-2097 Electronic Home Entertainment Equipment Installers and Repairers
49-2098 Security and Fire Alarm Systems Installers
49-3011 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
49-3041 Farm Equipment Mechanics
49-3042 Mobile Heavy Equipment Mechanics, Except Engines
49-3043 Rail Car Repairers
49-3051 Motorboat Mechanics
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
49-9011 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
49-9041 Industrial Machinery Mechanics
49-9042 Maintenance and Repair Workers, General
49-9043 Maintenance Workers, Machinery
49-9044 Millwrights
49-9045 Refractory Materials Repairers, Except Brickmasons
49-9051 Electrical Power-Line Installers and Repairers
49-9052 Telecommunications Line Installers and Repairers

49-9061 Camera and Photographic Equipment Repairers
49-9062 Medical Equipment Repairers
49-9063 Musical Instrument Repairers and Tuners
49-9064 Watch Repairers
49-9069 Precision Instrument and Equipment Repairers, All Other
49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers
49-9092 Commercial Divers
49-9093 Fabric Menders, Except Garment
49-9094 Locksmiths and Safe Repairers
49-9095 Manufactured Building and Mobile Home Installers
49-9096 Riggers
49-9097 Signal and Track Switch Repairers
49-9098 Helpers--Installation, Maintenance, and Repair Workers
49-9099 Installation, Maintenance, and Repair Workers, All Other
51-0000 Production Occupations
51-1011 First-Line Supervisors/Managers of Production and Operating Workers
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
51-2021 Coil Winders, Tapers, and Finishers
51-2022 Electrical and Electronic Equipment Assemblers
51-2023 Electromechanical Equipment Assemblers
51-2031 Engine and Other Machine Assemblers
51-2041 Structural Metal Fabricators and Fitters
51-2091 Fiberglass Laminators and Fabricators
51-2092 Team Assemblers
51-2093 Timing Device Assemblers, Adjusters, and Calibrators
51-2099 Assemblers and Fabricators, All Other
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
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic
51-4012 Numerical Tool and Process Control Programmers
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
51-4041 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 Lay-Out Workers, Metal and Plastic
51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
51-4194 Tool Grinders, Filers, and Sharpeners
51-4199 Metal Workers and Plastic Workers, All Other
51-5011 Bindery Workers
51-5012 Bookbinders
51-5021 Job Printers
51-5022 Prepress Technicians and Workers
51-5023 Printing Machine Operators
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, and Drawing Out Machine Setters, Operators, and 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
51-7011 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
51-8011 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 Liquid Waste 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
51-9011 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
51-9081 Dental Laboratory Technicians
51-9082 Medical Appliance Technicians
51-9083 Ophthalmic Laboratory Technicians
51-9111 Packaging and Filling Machine Operators and Tenders
51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
51-9122 Painters, Transportation Equipment
51-9123 Painting, Coating, and Decorating Workers
51-9131 Photographic Process Workers
51-9132 Photographic Processing Machine Operators
51-9141 Semiconductor Processors
51-9191 Cementing and Gluing 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
53-1011 Aircraft Cargo Handling Supervisors
53-1021 First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand
53-1031 First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators
53-2011 Airline Pilots, Copilots, and Flight Engineers
53-2012 Commercial Pilots
53-2021 Air Traffic Controllers
53-2022 Airfield Operations Specialists
53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
53-3021 Bus Drivers, Transit and Intercity
53-3022 Bus Drivers, School
53-3031 Driver/Sales Workers
53-3032 Truck Drivers, Heavy and Tractor-Trailer
53-3033 Truck Drivers, Light or Delivery Services
53-3041 Taxi Drivers and Chauffeurs
53-3099 Motor Vehicle Operators, All Other
53-4011 Locomotive Engineers
53-4012 Locomotive Firers
53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers
53-4021 Railroad Brake, Signal, and Switch Operators
53-4031 Railroad Conductors and Yardmasters
53-4041 Subway and Streetcar Operators
53-4099 Rail Transportation Workers, All Other
53-5011 Sailors and Marine Oilers
53-5021 Captains, Mates, and Pilots of Water Vessels

53-5022	Motorboat Operators
53-5031	Ship Engineers
53-6011	Bridge and Lock Tenders
53-6021	Parking Lot Attendants
53-6031	Service Station Attendants
53-6041	Traffic Technicians
53-6051	Transportation Inspectors
53-6099	Transportation Workers, All Other
53-7011	Conveyor Operators and Tenders
53-7021	Crane and Tower Operators
53-7031	Dredge Operators
53-7032	Excavating and Loading Machine and Dragline Operators
53-7033	Loading Machine Operators, Underground Mining
53-7041	Hoist and Winch Operators
53-7051	Industrial Truck and Tractor Operators
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
53-7071	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
53-7111	Shuttle Car Operators
53-7121	Tank Car, Truck, and Ship Loaders
53-7199	Material Moving Workers, All Other

