

Appendix H: Occupation Cluster Definitions

The following tables provide the standard occupational classification (SOC) codes and names for the 15 knowledge-based occupation clusters, as well as Job Zones 1 and 2.

Managerial, Sales, Marketing and HR

SOC	SOC Name
11-1011	Chief executives
11-1021	General and operations managers
11-2011	Advertising and promotions managers
11-2021	Marketing managers
11-2022	Sales managers
11-2031	Public relations managers
11-3011	Administrative services managers
11-3031	Financial managers
11-3041	Compensation and benefits managers
11-3042	Training and development managers
11-3049	Human resources managers, all other
11-3061	Purchasing managers
11-3071	Transportation, storage, and distribution managers
11-9051	Food service managers
11-9071	Gaming managers
11-9081	Lodging managers
11-9131	Postmasters and mail superintendents
11-9141	Property, real estate, and community association managers
13-1022	Wholesale and retail buyers, except farm products
13-1071	Employment, recruitment, and placement specialists
13-1072	Compensation, benefits, and job analysis specialists
13-1081	Logisticians
13-1111	Management analysts
13-1121	Meeting and convention planners
19-3021	Market research analysts
19-3022	Survey researchers
27-3031	Public relations specialists
35-1011	Chefs and head cooks
41-1012	First-line supervisors/managers of non-retail sales workers
41-3011	Advertising sales agents

SOC	SOC Name
41-3031	Securities, commodities, and financial services sales agents
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products
41-9031	Sales engineers
43-1011	First-line supervisors/managers of office and administrative support workers
43-4161	Human resources assistants, except payroll and timekeeping

Skilled Production Workers: Technicians, Operators, Trades, Installers & Repairers

SOC	SOC Name
11-3051	Industrial production managers
11-9021	Construction managers
17-2141	Mechanical engineers
17-3012	Electrical and electronics drafters
17-3027	Mechanical engineering technicians
37-1011	First-line supervisors/managers of housekeeping and janitorial workers
47-1011	First-line supervisors/managers of construction trades and extraction workers
47-2022	Stonemasons
47-2031	Carpenters
47-2051	Cement masons and concrete finishers
47-2073	Operating engineers and other construction equipment operators
47-2111	Electricians
47-2152	Plumbers, pipefitters, and steamfitters
47-4021	Elevator installers and repairers
49-1011	First-line supervisors/managers of mechanics, installers, and repairers
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
49-2098	Security and fire alarm systems installers
49-3011	Aircraft mechanics and service technicians
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

SOC	SOC Name
49-3051	Motorboat mechanics
49-3052	Motorcycle mechanics
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
49-9044	Millwrights
49-9051	Electrical power-line installers and repairers
49-9092	Commercial divers
49-9097	Signal and track switch repairers
51-1011	First-line supervisors/managers of production and operating workers
51-2041	Structural metal fabricators and fitters
51-4012	Numerical tool and process control programmers
51-4032	Drilling and boring 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
51-4061	Model makers, metal and plastic
51-4062	Patternmakers, metal and plastic
51-4111	Tool and die makers
51-7011	Cabinetmakers and bench carpenters
51-7032	Patternmakers, wood
51-8012	Power distributors and dispatchers
51-8013	Power plant operators
51-8021	Stationary engineers and boiler operators
51-8092	Gas plant operators
51-9195	Molders, shapers, and casters, except metal and plastic
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
53-5031	Ship engineers
53-6051	Transportation inspectors
53-7021	Crane and tower operators

Health Care and Medical Science (Aggregate)

SOC	SOC Name
11-9061	Funeral directors
11-9111	Medical and health services managers
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation
19-1041	Epidemiologists
19-1042	Medical scientists, except epidemiologists
19-3031	Clinical, counseling, and school psychologists
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
21-1021	Child, family, and school social workers
21-1022	Medical and public health social workers
21-1023	Mental health and substance abuse social workers
21-1092	Probation officers and correctional treatment specialists
29-1011	Chiropractors
29-1021	Dentists, general
29-1022	Oral and maxillofacial surgeons
29-1023	Orthodontists
29-1024	Prosthodontists
29-1031	Dietitians and nutritionists
29-1041	Optometrists
29-1051	Pharmacists
29-1069	Physicians and surgeons
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
29-2011	Medical and clinical laboratory technologists
29-2021	Dental hygienists

SOC	SOC Name
29-2031	Cardiovascular technologists and technicians
29-2032	Diagnostic medical sonographers
29-2033	Nuclear medicine technologists
29-2034	Radiologic technologists and technicians
29-2051	Dietetic 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
31-2011	Occupational therapist assistants
31-2021	Physical therapist assistants
31-9092	Medical assistants
31-9094	Medical transcriptionists
39-4011	Embalmers
49-9062	Medical equipment repairers
51-9082	Medical appliance technicians

Health Care and Medical Science (Medical Practitioners and Scientists)

SOC	SOC Name
11-9061	Funeral directors
11-9111	Medical and health services managers
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation
19-1041	Epidemiologists
19-1042	Medical scientists, except epidemiologists
29-1011	Chiropractors
29-1021	Dentists, general
29-1022	Oral and maxillofacial surgeons
29-1023	Orthodontists
29-1024	Prosthodontists
29-1031	Dietitians and nutritionists
29-1041	Optometrists
29-1069	Physicians and surgeons
29-1071	Physician assistants

SOC	SOC Name
29-1081	Podiatrists
29-1121	Audiologists
29-1126	Respiratory therapists
29-2081	Opticians, dispensing
29-2091	Orthotists and prosthetists
39-4011	Embalmers

Health Care and Medical Science (Medical Technicians)

SOC	SOC Name
29-1051	Pharmacists
29-1124	Radiation therapists
29-2011	Medical and clinical laboratory technologists
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
29-2051	Dietetic technicians
29-2054	Respiratory therapy technicians
29-2055	Surgical technologists
29-2056	Veterinary technologists and technicians
29-2071	Medical records and health information technicians
31-9092	Medical assistants
31-9094	Medical transcriptionists
49-9062	Medical equipment repairers
51-9082	Medical appliance technicians

Health Care and Medical Science (Therapy, Counseling, Nursing and Rehabilitation)

SOC	SOC Name
19-3031	Clinical, counseling, and school psychologists
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
21-1021	Child, family, and school social workers

SOC	SOC Name
21-1022	Medical and public health social workers
21-1023	Mental health and substance abuse social workers
21-1092	Probation officers and correctional treatment specialists
29-1111	Registered nurses
29-1122	Occupational therapists
29-1123	Physical therapists
29-1125	Recreational therapists
29-1127	Speech-language pathologists
29-2053	Psychiatric technicians
29-2061	Licensed practical and licensed vocational nurses
31-2011	Occupational therapist assistants
31-2021	Physical therapist assistants

Mathematics, Statistics, Data and Accounting

SOC	SOC Name
11-3021	Computer and information systems managers
11-3031	Financial managers
13-1023	Purchasing agents, except wholesale, retail, and farm products
13-2011	Accountants and auditors
13-2031	Budget analysts
13-2051	Financial analysts
13-2061	Financial examiners
15-1021	Computer programmers
15-1061	Database administrators
15-2011	Actuaries
15-2021	Mathematicians
15-2031	Operations research analysts
15-2041	Statisticians
15-2091	Mathematical technicians
19-3011	Economists
43-9011	Computer operators
43-9111	Statistical assistants

Legal and Financial Services and Real Estate

SOC	SOC Name
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
13-1071	Employment, recruitment, and placement specialists
13-2021	Appraisers and assessors of real estate
13-2041	Credit analysts
13-2052	Personal financial advisors
13-2053	Insurance underwriters
13-2071	Loan counselors
13-2072	Loan officers
13-2081	Tax examiners, collectors, and revenue agents
13-2082	Tax preparers
23-1011	Lawyers
23-1021	Administrative law judges, adjudicators, and hearing officers
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
25-4011	Archivists
25-4031	Library technicians
33-9021	Private detectives and investigators
41-3021	Insurance sales agents
41-3031	Securities, commodities, and financial services sales agents
41-9021	Real estate brokers
43-3011	Bill and account collectors
43-3021	Billing and posting clerks and machine operators
43-3031	Bookkeeping, accounting, and auditing clerks
43-3051	Payroll and timekeeping clerks
43-3061	Procurement clerks
43-4011	Brokerage clerks
43-4031	Court, municipal, and license clerks
43-4041	Credit authorizers, checkers, and clerks
43-4061	Eligibility interviewers, government programs
43-4071	File clerks

SOC	SOC Name
43-4121	Library assistants, clerical
43-4131	Loan interviewers and clerks
43-6011	Executive secretaries and administrative assistants
43-6012	Legal secretaries

Information Technology

SOC	SOC Name
15-1031	Computer software engineers, applications
15-1032	Computer software engineers, systems software
15-1041	Computer support specialists
15-1051	Computer systems analysts
15-1071	Network and computer systems administrators
15-1081	Network systems and data communications analysts
17-2061	Computer hardware engineers
17-3023	Electrical and electronic engineering technicians
17-3024	Electro-mechanical technicians
25-9011	Audio-visual collections specialists
27-4011	Audio and video equipment technicians
27-4012	Broadcast technicians
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

Natural Sciences and Environmental Management

SOC	SOC Name
11-9121	Natural sciences managers
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation
17-1021	Cartographers and photogrammetrists
17-3031	Surveying and mapping technicians
19-1011	Animal scientists
19-1013	Soil and plant Scientists
19-1021	Biochemists and biophysicists
19-1022	Microbiologists
19-1023	Zoologists and wildlife biologists

SOC	SOC Name
19-1029	Biological scientists, all other
19-1031	Conservation scientists
19-1032	Foresters
19-2021	Atmospheric and space scientists
19-2041	Environmental scientists and specialists, including health
19-2042	Geoscientists, except hydrologists and geographers
19-2043	Hydrologists
19-4041	Geological and petroleum technicians
19-4091	Environmental science and protection technicians, including health
19-4093	Forest and conservation technicians
33-2022	Forest fire inspectors and prevention specialists
45-4011	Forest and conservation workers

Agribusiness and Food Technology

SOC	SOC Name
11-9011	Farm, ranch, and other agricultural managers
11-9012	Farmers and ranchers
13-1021	Purchasing agents and buyers, farm products
19-1012	Food scientists and technologists
19-4011	Agricultural and food science technicians
19-4021	Biological technicians
19-4031	Chemical technicians
25-9021	Farm and home management advisors
29-1131	Veterinarians
37-3012	Pesticide handlers, sprayers, and applicators, vegetation
45-1099	Supervisors, farming, fishing, and forestry workers
45-2011	Agricultural inspectors
45-2021	Animal breeders
45-4023	Log graders and scalers
51-8031	Water and liquid waste treatment plant and system operators

Primary/Secondary and Vocational Education, Remediation and Social Services

SOC	SOC Name
11-9031	Education administrators, preschool and child care center/program

SOC	SOC Name
11-9032	Education administrators, elementary and secondary school
11-9151	Social and community service managers
13-1073	Training and development specialists
19-4061	Social science research assistants
21-1091	Health educators
21-1093	Social and human service assistants
21-2011	Clergy
21-2021	Directors, religious activities and education
23-1022	Arbitrators, mediators, and conciliators
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
25-9031	Instructional coordinators
25-9041	Teacher assistants
27-2022	Coaches and scouts
27-2023	Umpires, referees, and other sports officials
29-9091	Athletic trainers
39-9032	Recreation workers
39-9041	Residential advisors
43-4111	Interviewers, except eligibility and loan

Building, Landscape and Construction Design

SOC	SOC Name
17-1011	Architects, except landscape and naval
17-1012	Landscape architects
17-1022	Surveyors
17-3011	Architectural and civil drafters
17-3012	Electrical and electronics drafters

SOC	SOC Name
17-3013	Mechanical drafters
17-3022	Civil engineering technicians
17-3031	Surveying and mapping technicians
19-3051	Urban and regional planners
19-4061	Social science research assistants
47-4011	Construction and building inspectors
51-7031	Model makers, wood

Engineering and Related Sciences

SOC	SOC Name
11-9041	Engineering managers
17-2011	Aerospace engineers
17-2021	Agricultural engineers
17-2031	Biomedical engineers
17-2041	Chemical engineers
17-2051	Civil 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
17-2151	Mining and geological engineers, including mining safety engineers
17-2161	Nuclear engineers
17-2171	Petroleum engineers
17-3021	Aerospace engineering and operations technicians
17-3023	Electrical and electronic engineering technicians
17-3025	Environmental engineering technicians
17-3026	Industrial engineering technicians
19-2011	Astronomers
19-2012	Physicists
19-2031	Chemists
19-2032	Materials scientists
19-4041	Geological and petroleum technicians
19-4051	Nuclear technicians

SOC	SOC Name
27-1021	Commercial and industrial designers
51-8011	Nuclear power reactor operators

Personal Services Occupations

SOC	SOC Name
25-3021	Self-enrichment education teachers
31-9011	Massage therapists
35-2013	Cooks, private household
39-1021	First-line supervisors/managers of personal service workers
39-5011	Barbers
39-5012	Hairdressers, hairstylists, and cosmetologists
39-5092	Manicurists and pedicurists
39-5094	Skin care specialists
39-6021	Tour guides and escorts
39-6022	Travel guides
39-9011	Child care workers
39-9031	Fitness trainers and aerobics instructors
41-3041	Travel agents
49-9064	Watch repairers

Arts, Entertainment, Publishing and Broadcasting

SOC	SOC Name
13-1011	Agents and business managers of artists, performers, and athletes
27-1011	Art directors
27-1013	Fine artists, including painters, sculptors, and illustrators
27-1014	Multi-media artists and animators
27-1022	Fashion designers
27-1024	Graphic designers
27-1025	Interior designers
27-1027	Set and exhibit designers
27-2012	Producers and directors
27-2031	Dancers
27-2032	Choreographers
27-2041	Music directors and composers
27-2042	Musicians and singers

SOC	SOC Name
27-3011	Radio and television announcers
27-3021	Broadcast news analysts
27-3022	Reporters and correspondents
27-3041	Editors
27-3042	Technical writers
27-3043	Writers and authors
27-3091	Interpreters and translators
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
43-9031	Desktop publishers
43-9081	Proofreaders and copy markers
49-2097	Electronic home entertainment equipment installers and repairers
49-9061	Camera and photographic equipment repairers
49-9063	Musical instrument repairers and tuners
51-5021	Job printers
51-5022	Prepress technicians and workers
51-6092	Fabric and apparel patternmakers
51-9071	Jewelers and precious stone and metal workers
51-9195	Molders, shapers, and casters, except metal and plastic

Public Safety and Domestic Security

SOC	SOC Name
13-1061	Emergency management specialists
17-2111	Health and safety engineers, except mining safety engineers and inspectors
19-4092	Forensic science technicians
29-9011	Occupational health and safety specialists
29-9012	Occupational health and safety technicians
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
33-2011	Fire fighters
33-2021	Fire inspectors and investigators
33-3012	Correctional officers and jailers

SOC	SOC Name
33-3021	Detectives and criminal investigators
33-3031	Fish and game wardens
33-3051	Police and sheriff's patrol officers
33-3052	Transit and railroad police
53-2011	Airline pilots, copilots, and flight engineers
53-2012	Commercial pilots
53-2021	Air traffic controllers
53-2022	Airfield operations specialists
53-5021	Captains, mates, and pilots of water vessels
53-6041	Traffic technicians
53-6051	Transportation inspectors

Postsecondary Education and Knowledge Creation

SOC	SOC Name
11-9033	Education administrators, postsecondary
15-2021	Mathematicians
15-2041	Statisticians
19-2011	Astronomers
19-2012	Physicists
19-2031	Chemists
19-3011	Economists
19-3032	Industrial-organizational psychologists
19-3041	Sociologists
19-3091	Anthropologists and archeologists
19-3092	Geographers
19-3093	Historians
19-3094	Political scientists
25-1099	Postsecondary teachers
25-4012	Curators
25-4013	Museum Technicians and Conservators
25-4021	Librarians

Job Zone 2

SOC	SOC Name
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation
27-1012	Craft artists
27-1023	Floral designers
27-1026	Merchandise displayers and window trimmers
27-2011	Actors
27-2021	Athletes and sports competitors
27-2042	Musicians and singers
27-3012	Public address system and other announcers
29-2012	Medical and clinical laboratory technicians
29-2041	Emergency medical technicians and paramedics
29-2052	Pharmacy technicians
31-1011	Home health aides
31-1012	Nursing aides, orderlies, and attendants
31-1013	Psychiatric aides
31-2012	Occupational therapist aides
31-2022	Physical therapist aides
31-9091	Dental assistants
31-9093	Medical equipment preparers
31-9095	Pharmacy aides
31-9096	Veterinary assistants and laboratory animal caretakers
33-2011	Fire fighters
33-3011	Bailiffs
33-3041	Parking enforcement workers
33-9011	Animal control workers
33-9031	Gaming surveillance officers and gaming investigators
33-9032	Security guards
35-1012	First-line supervisors/managers of food preparation and serving workers
35-2012	Cooks, institution and cafeteria
35-2014	Cooks, restaurant
35-3011	Bartenders
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers
37-2021	Pest control workers
37-3013	Tree trimmers and pruners
39-1011	Gaming supervisors
39-1012	Slot key persons
39-2011	Animal trainers

SOC	SOC Name
39-2021	Nonfarm animal caretakers
39-3011	Gaming dealers
39-3012	Gaming and sports book writers and runners
39-3021	Motion picture projectionists
39-3092	Costume attendants
39-4021	Funeral attendants
39-5091	Makeup artists, theatrical and performance
39-6012	Concierges
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
41-1011	First-line supervisors/managers of retail sales workers
41-2012	Gaming change persons and booth cashiers
41-2022	Parts salespersons
41-2031	Retail salespersons
41-9011	Demonstrators and product promoters
41-9022	Real estate sales agents
41-9041	Telemarketers
41-9091	Door-to-door sales workers, news and street vendors, and related workers
43-2011	Switchboard operators, including answering service
43-2021	Telephone operators
43-3021	Billing and posting clerks and machine operators
43-3041	Gaming cage workers
43-3071	Tellers
43-4021	Correspondence clerks
43-4031	Court, municipal, and license clerks
43-4041	Credit authorizers, checkers, and clerks
43-4051	Customer service representatives
43-4081	Hotel, motel, and resort desk clerks
43-4141	New accounts clerks
43-4151	Order clerks
43-4171	Receptionists and information clerks
43-4181	Reservation and transportation ticket agents and travel clerks
43-5011	Cargo and freight agents
43-5021	Couriers and messengers
43-5031	Police, fire, and ambulance dispatchers

SOC	SOC Name
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
43-6013	Medical secretaries
43-6014	Secretaries, except legal, medical, and executive
43-9021	Data entry keyers
43-9022	Word processors and typists
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
45-1099	Supervisors, farming, fishing, and forestry workers
45-2091	Agricultural equipment operators
47-2011	Boilermakers
47-2021	Brickmasons and blockmasons
47-2031	Carpenters
47-2042	Floor layers, except carpet, wood, and hard tiles
47-2043	Floor sanders and finishers
47-2044	Tile and marble setters
47-2053	Terrazzo workers and finishers
47-2071	Paving, surfacing, and tamping equipment operators
47-2072	Pile-driver operators
47-2081	Drywall and ceiling tile installers
47-2082	Tapers
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
47-2161	Plasterers and stucco masons

SOC	SOC Name
47-2171	Reinforcing iron and rebar workers
47-2181	Roofers
47-2211	Sheet metal workers
47-2221	Structural iron and steel workers
47-3012	Helpers, carpenters
47-3013	Helpers, electricians
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters
47-4031	Fence erectors
47-4041	Hazardous materials removal workers
47-4051	Highway maintenance workers
47-4061	Rail-track laying and maintenance equipment operators
47-4091	Segmental pavers
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
47-5051	Rock splitters, quarry
47-5061	Roof bolters, mining
47-5071	Roustabouts, oil and gas
47-5081	Helpers, extraction workers
49-3021	Automotive body and related repairers
49-3022	Automotive glass installers and repairers
49-3043	Rail car repairers
49-3053	Outdoor power equipment and other small engine mechanics
49-3091	Bicycle repairers
49-3092	Recreational vehicle service technicians
49-9011	Mechanical door repairers
49-9043	Maintenance workers, machinery
49-9045	Refractory materials repairers, except brickmasons
49-9052	Telecommunications line installers and repairers
49-9091	Coin, vending, and amusement machine servicers and repairers
49-9094	Locksmiths and safe repairers
49-9095	Manufactured building and mobile home installers
49-9096	Riggers
49-9098	Helpers—Installation, maintenance, and repair workers

SOC	SOC Name
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
51-2091	Fiberglass laminators and fabricators
51-2092	Team assemblers
51-2093	Timing device assemblers, adjusters, and calibrators
51-3011	Bakers
51-3021	Butchers and meat cutters
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
51-4021	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
51-4033	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
51-4051	Metal-refining furnace operators and tenders
51-4052	Pourers and casters, metal
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
51-4121	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
51-5011	Bindery workers
51-5012	Bookbinders
51-5023	Printing machine operators
51-6011	Laundry and dry-cleaning workers
51-6041	Shoe and leather workers and repairers
51-6042	Shoe machine operators and tenders

SOC	SOC Name
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
51-6093	Upholsterers
51-7041	Sawing machine setters, operators, and tenders, wood
51-7042	Woodworking machine setters, operators, and tenders, except sawing
51-8091	Chemical plant and system operators
51-8093	Petroleum pump system operators, refinery operators, and gaugers
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
51-9023	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
51-9083	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

SOC	SOC Name
51-9197	Tire builders
53-1011	Aircraft cargo handling supervisors
53-3011	Ambulance drivers and attendants, except emergency medical technicians
53-3021	Bus drivers, transit and intercity
53-3022	Bus drivers, school
53-3032	Truck drivers, heavy and tractor-trailer
53-3033	Truck drivers, light or delivery services
53-4021	Railroad brake, signal, and switch operators
53-4031	Railroad conductors and yardmasters
53-4041	Subway and streetcar operators
53-5011	Sailors and marine oilers
53-5022	Motorboat operators
53-7011	Conveyor operators and tenders
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
53-7062	Laborers and freight, stock, and material movers, hand
53-7063	Machine feeders and offbearers
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

Job Zone 1

SOC	SOC Name
33-9091	Crossing guards
33-9092	Lifeguards, ski patrol, and other recreational protective service workers
35-2011	Cooks, fast food
35-2015	Cooks, short order
35-2021	Food preparation workers
35-3021	Combined food preparation and serving workers, including fast food
35-3022	Counter attendants, cafeteria, food concession, and coffee shop

SOC	SOC Name
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
37-2011	Janitors and cleaners, except maids and housekeeping cleaners
37-2012	Maids and housekeeping cleaners
37-3011	Landscaping and groundskeeping workers
39-3031	Ushers, lobby attendants, and ticket takers
39-3091	Amusement and recreation attendants
39-3093	Locker room, coatroom, and dressing room attendants
39-6011	Baggage porters and bellhops
41-2011	Cashiers, except gaming
41-2021	Counter and rental clerks
41-9012	Models
43-5081	Stock clerks and order fillers
45-2041	Graders and sorters, agricultural products
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse
45-2093	Farmworkers, farm and ranch animals
45-3011	Fishers and related fishing workers
45-4021	Fallers
45-4022	Logging equipment operators
47-2041	Carpet installers
47-2061	Construction laborers
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons
47-4071	Septic tank servicers and sewer pipe cleaners
47-5011	Derrick operators, oil and gas
49-3093	Tire repairers and changers
49-9093	Fabric menders, except garment
51-3022	Meat, poultry, and fish cutters and trimmers
51-3023	Slaughterers and meat packers
51-6021	Pressers, textile, garment, and related materials
51-6031	Sewing machine operators
51-7021	Furniture finishers
51-9022	Grinding and polishing workers, hand
51-9198	Helpers—Production workers

SOC	SOC Name
53-3031	Driver/sales workers
53-3041	Taxi drivers and chauffeurs
53-6011	Bridge and lock tenders
53-6021	Parking lot attendants
53-6031	Service station attendants
53-7061	Cleaners of vehicles and equipment
53-7064	Packers and packagers, hand