

Regional Labor Market Assessment

Occupation Definitions



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Occupation Definitions Reference Guide

This guide provides occupation definitions organized by major occupational group and detailed code. To locate an occupation description, find the occupational group and then the detailed occupational code.

Management Occupations (11)

Administrative Services Managers (SOC:11-3011)

Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services.

Industrial Production Managers (SOC:11-3051)

Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.

Transportation, Storage, and Distribution Managers (SOC:11-3071)

Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.

Farmers, Ranchers, and Other Agricultural Managers (SOC:11-9013)

Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments. May hire, train, and supervise farm workers or contract for services to carry out the day-to-day activities of the managed operation. May engage in or supervise planting, cultivating, harvesting, and financial and marketing activities.

Construction Managers (SOC:11-9021)

Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing.

Food Service Managers (SOC:11-9051)

Plan, direct, or coordinate activities of an organization or department that serves food and beverages.

Funeral Service Managers (SOC:11-9061)

Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise and managing the facilities of funeral homes.

Gaming Managers (SOC:11-9071)

Plan, direct, or coordinate gaming operations in a casino. May formulate house rules.

Lodging Managers (SOC:11-9081)

Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations.

Property, Real Estate, and Community Association Managers (SOC:11-9141)

Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way).

Emergency Management Directors (SOC:11-9161)

Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.

Business and Financial Operations Occupations (13)

Wholesale and Retail Buyers, Except Farm Products (SOC:13-1022)

Buy merchandise or commodities, other than farm products, for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Analyze past buying trends, sales records, price, and quality of merchandise to determine value and yield. Select, order, and authorize payment for merchandise according to contractual agreements. May conduct meetings with sales personnel and introduce new products. Includes assistant wholesale and retail buyers of nonfarm products.

Purchasing Agents, Except Wholesale, Retail, and Farm Products (SOC:13-1023)

Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing.

Claims Adjusters, Examiners, and Investigators (SOC:13-1031)

Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims.

Insurance Appraisers, Auto Damage (SOC:13-1032)

Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs.

Cost Estimators (SOC:13-1051)

Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.

Logisticians (SOC:13-1081)

Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources.

Appraisers and Assessors of Real Estate (SOC:13-2021)

Appraise real property and estimate its fair value. May assess taxes in accordance with prescribed schedules.

Credit Counselors (SOC:13-2071)

Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explaining loan requirements or restrictions. May help develop debt management plans, advise on credit issues, or provide budget, mortgage, and bankruptcy counseling.

Tax Examiners and Collectors, and Revenue Agents (SOC:13-2081)

Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.

Tax Preparers (SOC:13-2082)

Prepare tax returns for individuals or small businesses.

Compensation, Benefits, and Job Analysis Specialists (SOC:13-1141)

Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.

Training and Development Specialists (SOC:13-1151)

Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.

Loan Officers (SOC:13-2072)

Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters.

Computer and Mathematical Occupations (15)

Web Developers (SOC:15-1134)

Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content.

Network and Computer Systems Administrators (SOC:15-1142)

Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test Web site performance to ensure Web sites operate correctly and without interruption. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. May supervise computer user support specialists and computer network support specialists. May administer network security measures.

Computer Network Architects (SOC:15-1143)

Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software.

Computer User Support Specialists (SOC:15-1151)

Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.

Computer Network Support Specialists (SOC:15-1152)

Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption.

Computer Occupations, All Other (SOC:15-1199)*

All computer occupations not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Architecture and Engineering Occupations (17)

Architectural and Civil Drafters (SOC:17-3011)

Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

Electrical and Electronics Drafters (SOC:17-3012)

Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.

Mechanical Drafters (SOC:17-3013)

Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.

Drafters, All Other (SOC:17-3019)*

All drafters not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Aerospace Engineering and Operations Technicians (SOC:17-3021)

Operate, install, calibrate, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment, which are used to launch, track, position, and evaluate air and space vehicles. May record and interpret test data.

Civil Engineering Technicians (SOC:17-3022)

Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.

Electrical and Electronic Engineering Technicians (SOC:17-3023)

Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions.

Electro-Mechanical Technicians (SOC:17-3024)

Operate, test, maintain, or calibrate unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.

Environmental Engineering Technicians (SOC:17-3025)

Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientist. May assist in the development of environmental remediation devices.

Industrial Engineering Technicians (SOC:17-3026)

Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.

Mechanical Engineering Technicians (SOC:17-3027)

Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.

Engineering Technicians, Except Drafters, All Other (SOC:17-3029)*

All engineering technicians, except drafters, not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Surveying and Mapping Technicians (SOC:17-3031)

Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of maps.

Life, Physical, and Social Science Occupations (19)

Agricultural and Food Science Technicians (SOC:19-4011)

Work with agricultural and food scientists in food, fiber, and animal research, production, and processing; and assist with animal breeding and nutrition. Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Includes technicians who assist food scientists or technologists in the research and development of production technology, quality control, packaging, processing, and use of foods.

Chemical Technicians (SOC:19-4031)

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.

Geological and Petroleum Technicians (SOC:19-4041)

Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential resources such as metallic ore, minerals, gas, coal, or petroleum. Analyze mud and drill cuttings. Chart pressure, temperature, and other characteristics of wells or bore holes. Investigate and collect information leading to the possible discovery of new metallic ore, minerals, gas, coal, or petroleum deposits.

Nuclear Technicians (SOC:19-4051)

Assist nuclear physicists, nuclear engineers, or other scientists in laboratory or production activities. May operate, maintain, or provide quality control for nuclear testing and research equipment. May monitor radiation.

Social Science Research Assistants (SOC:19-4061)

Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management.

Environmental Science and Protection Technicians, Including Health (SOC:19-4091)

Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.

Forensic Science Technicians (SOC:19-4092)

Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry.

Forest and Conservation Technicians (SOC:19-4093)

Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts, under the direction of foresters; or train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats.

Life, Physical, and Social Science Technicians, All Other (SOC:19-4099)*

All life, physical, and social science technicians not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Community and Social Services Occupations (21)

Social and Human Service Assistants (SOC:21-1093)

Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services. May assist social workers with developing, organizing, and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation, or dependent care.

Community Health Workers (SOC:21-1094)

Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health. May provide information on available resources, provide social support and informal counseling, advocate for individuals and community health needs, and provide services such as first aid and blood pressure screening. May collect data to help identify community health needs.

Legal Occupations (23)

Paralegals and Legal Assistants (SOC:23-2011)

Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action.

Court Reporters (SOC:23-2091)

Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers.

Title Examiners, Abstractors, and Searchers (SOC:23-2093)

Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies.

Legal Support Workers, All Other (SOC:23-2099)*

All legal support workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Education, Training, and Library Occupations (25)

Preschool Teachers, Except Special Education (SOC:25-2011)

Instruct preschool-aged children in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification.

Library Technicians (SOC:25-4031)

Assist librarians by helping readers in the use of library catalogs, databases, and indexes to locate books and other materials; and by answering questions that require only brief consultation of standard reference. Compile records; sort and shelve books or other media; remove or repair damaged books or other media; register patrons; and check materials in and out of the circulation process. Replace materials in shelving area (stacks) or files. Includes bookmobile drivers who assist with providing services in mobile libraries.

Teacher Assistants (SOC:25-9041)

Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher has ultimate responsibility for the design and implementation of educational programs and services.

Arts, Design, Entertainment, Sports, and Media Occupation (27)

Multimedia Artists and Animators (SOC:27-1014)

Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials.

Artists and Related Workers, All Other (SOC:27-1019)

All artists and related workers not listed separately.

Commercial and Industrial Designers (SOC:27-1021)

Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.

Fashion Designers (SOC:27-1022)

Design clothing and accessories. Create original designs or adapt fashion trends.

Floral Designers (SOC:27-1023)

Design, cut, and arrange live, dried, or artificial flowers and foliage.

Graphic Designers (SOC:27-1024)

Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.

Actors (SOC:27-2011)

Play parts in stage, television, radio, video, motion picture productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing.

Producers and Directors (SOC:27-2012)

Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.

Dancers (SOC:27-2031)

Perform dances. May perform on stage, for on-air broadcasting, or for video recording.

Choreographers (SOC:27-2032)

Create new dance routines. Rehearse performance of routines. May direct and stage presentations.

Entertainers and Performers, Sports and Related Workers, All Other (SOC:27-2099)*

All entertainers and performers, sports and related workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Radio and Television Announcers (SOC:27-3011)

Speak or read from scripted materials, such as news reports or commercial messages, on radio or television. May announce artist or title of performance, identify station, or interview guests.

Public Address System and Other Announcers (SOC:27-3012)

Make announcements over public address system at sporting or other public events. May act as master of ceremonies or disc jockey at weddings, parties, clubs, or other gathering places.

Interpreters and Translators (SOC:27-3091)

Interpret oral or sign language, or translate written text from one language into another.

Audio and Video Equipment Technicians (SOC:27-4011)

Set up, or set up and operate audio and video equipment including microphones, sound speakers, video screens, projectors, video monitors, recording equipment, connecting wires and cables, sound and mixing boards, and related electronic equipment for concerts, sports events, meetings and conventions, presentations, and news conferences. May also set up and operate associated spotlights and other custom lighting systems.

Broadcast Technicians (SOC:27-4012)

Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate transmitter to broadcast radio or television programs.

Sound Engineering Technicians (SOC:27-4014)

Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions.

Photographers (SOC:27-4021)

Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.

Camera Operators, Television, Video, and Motion Picture (SOC:27-4031)

Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.

Film and Video Editors (SOC:27-4032)

Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images.

Healthcare Practitioners and Technical Occupations (29)

Radiation Therapists (SOC:29-1124)

Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization.

Respiratory Therapists (SOC:29-1126)

Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.

Registered Nurses (SOC:29-1141)

Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.

Medical and Clinical Laboratory Technologists (SOC:29-2011)

Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.

Medical and Clinical Laboratory Technicians (SOC:29-2012)

Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.

Dental Hygienists (SOC:29-2021)

Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x rays, or apply fluoride or sealants.

Cardiovascular Technologists and Technicians (SOC:29-2031)

Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests. Includes vascular technologists.

Diagnostic Medical Sonographers (SOC:29-2032)

Produce ultrasonic recordings of internal organs for use by physicians.

Nuclear Medicine Technologists (SOC:29-2033)

Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques.

Radiologic Technologists (SOC:29-2034)

Take x rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities.

Magnetic Resonance Imaging Technologists (SOC:29-2035)

Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously. May interview patient, explain MRI procedures, and position patient on examining table. May enter into the computer data such as patient history, anatomical area to be scanned, orientation specified, and position of entry.

Emergency Medical Technicians and Paramedics (SOC:29-2041)

Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.

Dietetic Technicians (SOC:29-2051)

Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.

Pharmacy Technicians (SOC:29-2052)

Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.

Psychiatric Technicians (SOC:29-2053)

Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.

Respiratory Therapy Technicians (SOC:29-2054)

Provide respiratory care under the direction of respiratory therapists and physicians.

Surgical Technologists (SOC:29-2055)

Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon's assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.

Veterinary Technologists and Technicians (SOC:29-2056)

Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. May assist a veterinarian during surgery.

Ophthalmic Medical Technicians (SOC:29-2057)

Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.

Licensed Practical and Licensed Vocational Nurses (SOC:29-2061)

Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.

Medical Records and Health Information Technicians (SOC:29-2071)

Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards in a manner consistent with the healthcare industry's numerical coding system.

Opticians, Dispensing (SOC:29-2081)

Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with inserting, removing, and caring for contact lenses. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription. Prepare work order for optical laboratory containing instructions for grinding and mounting lenses in frames. Verify exactness of finished lens spectacles. Adjust frame and lens position to fit client. May shape or reshape frames. Includes contact lens opticians.

Health Technologists and Technicians, All Other (SOC:29-2099)*

All health technologists and technicians not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Healthcare Practitioners and Technical Workers, All Other (SOC: 29-9099)*

All healthcare practitioners and technical workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Healthcare Support Occupations (31)

Home Health Aides (SOC:31-1011)

Provide routine individualized healthcare such as changing bandages and dressing wounds, and applying topical medications to the elderly, convalescents, or persons with disabilities at the patient's home or in a care facility. Monitor or report changes in health status. May also provide personal care such as bathing, dressing, and grooming of patient.

Psychiatric Aides (SOC:31-1013)

Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from examinations and treatments. May restrain violent patients. Includes psychiatric orderlies.

Nursing Assistants (SOC:31-1014)

Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens. May transfer or transport patients. Includes nursing care attendants, nursing aides, and nursing attendants.

Occupational Therapy Assistants (SOC:31-2011)

Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with State laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments. Generally requires formal training.

Occupational Therapy Aides (SOC:31-2012)

Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.

Physical Therapist Assistants (SOC:31-2021)

Assist physical therapists in providing physical therapy treatments and procedures. May, in accordance with State laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment, and modify specific treatments in accordance with patient status and within the scope of treatment plans established by a physical therapist. Generally requires formal training.

Massage Therapists (SOC:31-9011)

Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.

Dental Assistants (SOC:31-9091)

Assist dentist, set up equipment, prepare patient for treatment, and keep records.

Medical Assistants (SOC:31-9092)

Perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician.

Medical Equipment Preparers (SOC:31-9093)

Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.

Medical Transcriptionists (SOC:31-9094)

Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form. Edit as necessary and return reports in either printed or electronic form for review and signature, or correction.

Phlebotomists (SOC:31-9097)

Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.

Healthcare Support Workers, All Other (SOC:31-9099)*

All healthcare support workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Protective Service Occupations (33)

First-Line Supervisors of Correctional Officers (SOC:33-1011)

Directly supervise and coordinate activities of correctional officers and jailers.

First-Line Supervisors of Police and Detectives (SOC:33-1012)

Directly supervise and coordinate activities of members of police force.

First-Line Supervisors of Fire Fighting and Prevention Workers (SOC:33-1021)

Directly supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control.

Firefighters (SOC:33-2011)

Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.

Fire Inspectors and Investigators (SOC:33-2021)

Inspect buildings to detect fire hazards and enforce local ordinances and State laws, or investigate and gather facts to determine cause of fires and explosions.

Forest Fire Inspectors and Prevention Specialists (SOC:33-2022)

Enforce fire regulations, inspect forest for fire hazards and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

Bailiffs (SOC:33-3011)

Maintain order in courts of law.

Correctional Officers and Jailers (SOC:33-3012)

Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.

Detectives and Criminal Investigators (SOC:33-3021)

Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes.

Fish and Game Wardens (SOC:33-3031)

Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.

Police and Sheriff's Patrol Officers (SOC:33-3051)

Maintain order and protect life and property by enforcing local, tribal, State, or Federal laws and ordinances. Perform a combination of the following duties: patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts.

Transit and Railroad Police (SOC:33-3052)

Protect and police railroad and transit property, employees, or passengers.

Animal Control Workers (SOC:33-9011)

Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.

Transportation Security Screeners (SOC:33-9093)

Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.

Food Preparation and Serving Related Occupations (35)

Chefs and Head Cooks (SOC:35-1011)

Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts.

First-Line Supervisors of Food Preparation and Serving Workers (SOC:35-1012)

Directly supervise and coordinate activities of workers engaged in preparing and serving food.

Cooks, Private Household (SOC:35-2013)

Prepare meals in private homes. Includes personal chefs.

Building and Grounds Cleaning and Maintenance Occupations (37)

First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers (SOC:37-1012)

Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. Work may involve reviewing contracts to ascertain service, machine, and workforce requirements; answering inquiries from potential customers regarding methods, material, and price ranges; and preparing estimates according to labor, material, and machine costs.

Personal Care and Service Occupations (39)

Animal Trainers (SOC:39-2011)

Train animals for riding, harness, security, performance, or obedience, or assisting persons with disabilities. Accustom animals to human voice and contact; and condition animals to respond to commands. Train animals according to prescribed standards for show or competition. May train animals to carry pack loads or work as part of pack team.

Embalmers (SOC:39-4011)

Prepare bodies for interment in conformity with legal requirements.

Morticians, Undertakers, and Funeral Directors (SOC:39-4031)

Perform various tasks to arrange and direct funeral services, such as coordinating transportation of body to mortuary, interviewing family or other authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners.

Hairdressers, Hairstylists, and Cosmetologists (SOC:39-5012)

Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May apply makeup, dress wigs, perform hair removal, and provide nail and skin care services.

Makeup Artists, Theatrical and Performance (SOC:39-5091)

Apply makeup to performers to reflect period, setting, and situation of their role.

Manicurists and Pedicurists (SOC:39-5092)

Clean and shape customers' fingernails and toenails. May polish or decorate nails.

Skincare Specialists (SOC:39-5094)

Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.

Concierges (SOC:39-6012)

Assist patrons at hotel, apartment, or office building with personal services. May take messages, arrange or give advice on transportation, business services or entertainment, or monitor guest requests for housekeeping and maintenance.

Tour Guides and Escorts (SOC:39-7011)

Escort individuals or groups on sightseeing tours or through places of interest, such as industrial establishments, public buildings, and art galleries.

Travel Guides (SOC:39-7012)

Plan, organize, and conduct long distance travel, tours, and expeditions for individuals and groups.

Childcare Workers (SOC:39-9011)

Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play.

Fitness Trainers and Aerobics Instructors (SOC:39-9031)

Instructor coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills.

Recreation Workers (SOC:39-9032)

Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members.

Barbers (SOC:39-5011)

Provide barbering services, such as cutting, trimming, shampooing, and styling hair, trimming beards, or giving shaves.

Sales and Related Occupations (41)

First-Line Supervisors of Retail Sales Workers (SOC:41-1011)

Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.

First-Line Supervisors of Non-Retail Sales Workers (SOC:41-1012)

Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties such as budgeting, accounting, and personnel work, in addition to supervisory duties.

Parts Salespersons (SOC:41-2022)

Sell spare and replacement parts and equipment in repair shop or parts store.

Advertising Sales Agents (SOC:41-3011)

Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or the Internet. Includes individuals who obtain leases for outdoor advertising sites or persuade retailers to use sales promotion display items.

Insurance Sales Agents (SOC:41-3021)

Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.

Travel Agents (SOC:41-3041)

Plan and sell transportation and accommodations for travel agency customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required. May also describe, plan, and arrange itineraries and sell tour packages. May assist in resolving clients' travel problems.

Sales Representatives, Services, All Other (SOC:41-3099)*

All services sales representatives not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products (SOC:41-4012)

Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.

Real Estate Brokers (SOC:41-9021)

Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.

Real Estate Sales Agents (SOC:41-9022)

Rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.

Sales and Related Workers, All Other (SOC:41-9099)*

All sales and related workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Office and Administrative Support Occupations (43)

First-Line Supervisors of Office and Administrative Support Workers (SOC:43-1011)

Directly supervise and coordinate the activities of clerical and administrative support workers.

Bill and Account Collectors (SOC:43-3011)

Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; and keeping records of collection and status of accounts.

Billing and Posting Clerks (SOC:43-3021)

Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods.

Bookkeeping, Accounting, and Auditing Clerks (SOC:43-3031)

Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers.

Payroll and Timekeeping Clerks (SOC:43-3051)

Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks.

Procurement Clerks (SOC:43-3061)

Compile information and records to draw up purchase orders for procurement of materials and services.

Tellers (SOC:43-3071)

Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.

Brokerage Clerks (SOC:43-4011)*

Perform duties related to the purchase, sale or holding of securities. Duties include writing orders for stock purchases or sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings.

Court, Municipal, and License Clerks (SOC:43-4031)

Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus. May prepare docket of cases to be called; secure information for judges and court; prepare draft agendas or bylaws for town or city council; answer official correspondence; keep fiscal records and accounts; issue licenses or permits; and record data, administer tests, or collect fees.

Credit Authorizers, Checkers, and Clerks (SOC:43-4041)

Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit.

Customer Service Representatives (SOC:43-4051)

Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints.

Eligibility Interviewers, Government Programs (SOC:43-4061)

Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.

Loan Interviewers and Clerks (SOC:43-4131)

Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan.

New Accounts Clerks (SOC:43-4141)

Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.

Reservation and Transportation Ticket Agents and Travel Clerks (SOC:43-4181)

Make and confirm reservations for transportation or lodging, or sell transportation tickets. May check baggage and direct passengers to designated concourse, pier, or track; deliver tickets, contact individuals and groups to inform them of package tours; or provide tourists with travel or transportation information.

Cargo and Freight Agents (SOC:43-5011)

Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.

Police, Fire, and Ambulance Dispatchers (SOC:43-5031)

Operate radio, telephone, or computer equipment at emergency response centers. Receive reports from the public of crimes, disturbances, fires, and medical or police emergencies. Relay information to law enforcement and emergency response personnel. May maintain contact with caller until responders arrive.

Dispatchers, Except Police, Fire, and Ambulance (SOC:43-5032)

Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress.

Production, Planning, and Expediting Clerks (SOC:43-5061)

Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems.

Executive Secretaries and Executive Administrative Assistants (SOC:43-6011)

Provide high-level administrative support by conducting research, preparing statistical reports, handling information requests, and performing clerical functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff.

Legal Secretaries (SOC:43-6012)

Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.

Medical Secretaries (SOC:43-6013)

Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (SOC:43-6014)

Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.

Computer Operators (SOC:43-9011)

Monitor and control electronic computer and peripheral electronic data processing equipment to process business, scientific, engineering, and other data according to operating instructions. Monitor and respond to operating and error messages. May enter commands at a computer terminal and set controls on computer and peripheral devices.

Data Entry Keyers (SOC:43-9021)

Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing.

Desktop Publishers (SOC:43-9031)

Format typescript and graphic elements using computer software to produce publication-ready material.

Insurance Claims and Policy Processing Clerks (SOC:43-9041)

Process new insurance policies, modifications to existing policies, and claims forms. Obtain information from policyholders to verify the accuracy and completeness of information on claims forms, applications and related documents, and company records. Update existing policies and company records to reflect changes requested by policyholders and insurance company representatives.

Statistical Assistants (SOC:43-9111)

Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.

Human Resources Assistants, Except Payroll and Timekeeping (SOC:43-4161)

Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination. May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.

Construction and Extraction Occupations (47)

First-Line Supervisors of Construction Trades and Extraction Workers (SOC:47-1011)

Directly supervise and coordinate activities of construction or extraction workers.

Brickmasons and Blockmasons (SOC:47-2021)

Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures.

Stonemasons (SOC:47-2022)

Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.

Carpenters (SOC:47-2031)

Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways.

Paving, Surfacing, and Tamping Equipment Operators (SOC:47-2071)

Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.

Pile-Driver Operators (SOC:47-2072)

Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures, such as buildings, bridges, and piers.

Operating Engineers and Other Construction Equipment Operators (SOC:47-2073)

Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties.

Electricians (SOC:47-2111)

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

Glaziers (SOC:47-2121)

Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.

Plumbers, Pipefitters, and Steamfitters (SOC:47-2152)

Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.

Sheet Metal Workers (SOC:47-2211)

Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks, or forms using hammer; operating soldering and welding equipment to join sheet metal parts; or inspecting, assembling, and smoothing seams and joints of burred surfaces. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes.

Solar Photovoltaic Installers (SOC:47-2231)

Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks.

Construction and Building Inspectors (SOC:47-4011)

Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.

Rail-Track Laying and Maintenance Equipment Operators (SOC:47-4061)

Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Includes ballast cleaning machine operators and railroad bed tamping machine operators.

Boilermakers (SOC:47-2011)

Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Work involves use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Inspect and repair boiler fittings, such as safety valves, regulators, automatic-control mechanisms, water columns, and auxiliary machines.

Structural Iron and Steel Workers (SOC:47-2221)

Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings.

Elevator Installers and Repairers (SOC:47-4021)

Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.

Explosives Workers, Ordnance Handling Experts, and Blasters (SOC:47-5031)

Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures. Includes seismograph shooters.

Insulation Workers, Mechanical (SOC:47-2132)

Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

Reinforcing Iron and Rebar Workers (SOC:47-2171)

Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Includes rod busters.

Terrazzo Workers and Finishers (SOC:47-2053)

Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.

Installation, Maintenance, and Repair Occupations (49)

First-Line Supervisors of Mechanics, Installers, and Repairers (SOC:49-1011)

Directly supervise and coordinate the activities of mechanics, installers, and repairers.

Computer, Automated Teller, and Office Machine Repairers (SOC:49-2011)

Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines.

Telecommunications Equipment Installers and Repairers, Except Line Installers (SOC:49-2022)

Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings.

Avionics Technicians (SOC:49-2091)

Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.

Electric Motor, Power Tool, and Related Repairers (SOC:49-2092)

Repair, maintain, or install electric motors, wiring, or switches.

Electrical and Electronics Installers and Repairers, Transportation Equipment (SOC:49-2093)

Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment.

Electrical and Electronics Repairers, Commercial and Industrial Equipment (SOC:49-2094)

Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas.

Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (SOC:49-2095)

Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

Electronic Equipment Installers and Repairers, Motor Vehicles (SOC:49-2096)

Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.

Aircraft Mechanics and Service Technicians (SOC:49-3011)

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.

Automotive Body and Related Repairers (SOC:49-3021)

Repair and refinish automotive vehicle bodies and straighten vehicle frames.

Automotive Service Technicians and Mechanics (SOC:49-3023)

Diagnose, adjust, repair, or overhaul automotive vehicles.

Bus and Truck Mechanics and Diesel Engine Specialists (SOC:49-3031)

Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Farm Equipment Mechanics and Service Technicians (SOC:49-3041)

Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

Mobile Heavy Equipment Mechanics, Except Engines (SOC:49-3042)

Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.

Rail Car Repairers (SOC:49-3043)

Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars.

Motorboat Mechanics and Service Technicians (SOC:49-3051)

Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines.

Motorcycle Mechanics (SOC:49-3052)

Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.

Outdoor Power Equipment and Other Small Engine Mechanics (SOC:49-3053)

Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment and related equipment.

Recreational Vehicle Service Technicians (SOC:49-3092)

Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Includes workers who perform customized van conversions.

Heating, Air Conditioning, and Refrigeration Mechanics and Installers (SOC:49-9021)

Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

Home Appliance Repairers (SOC:49-9031)

Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.

Electrical Power-Line Installers and Repairers (SOC:49-9051)

Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers.

Medical Equipment Repairers (SOC:49-9062)

Test, adjust, or repair biomedical or electromedical equipment.

Musical Instrument Repairers and Tuners (SOC:49-9063)

Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning.

Precision Instrument and Equipment Repairers, All Other (SOC:49-9069)*

All precision instrument and equipment repairers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Commercial Divers (SOC:49-9092)

Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life.

Radio, Cellular, and Tower Equipment Installers and Repairers (SOC:49-2021)

Repair, install or maintain mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband, ship-to-shore, aircraft-to-ground communications, and radio equipment in service and emergency vehicles. May test and analyze network coverage.

Security and Fire Alarm Systems Installers (SOC:49-2098)

Install, program, maintain, or repair security or fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes.

Mechanical Door Repairers (SOC:49-9011)

Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.

Control and Valve Installers and Repairers, Except Mechanical Door (SOC:49-9012)

Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.

Industrial Machinery Mechanics (SOC:49-9041)

Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems.

Maintenance Workers, Machinery (SOC:49-9043)

Lubricate machinery, change parts, or perform other routine machinery maintenance.

Millwrights (SOC:49-9044)

Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Refractory Materials Repairers, Except Brickmasons (SOC:49-9045)

Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits and ovens, using refractory materials.

Telecommunications Line Installers and Repairers (SOC:49-9052)

Install and repair telecommunications cable, including fiber optics.

Camera and Photographic Equipment Repairers (SOC:49-9061)

Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.

Watch Repairers (SOC:49-9064)

Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Includes watchmakers, watch technicians, and mechanical timepiece repairers.

Maintenance and Repair Workers, General (SOC:49-9071)

Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs.

Wind Turbine Service Technicians (SOC:49-9081)

Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

Locksmiths and Safe Repairers (SOC:49-9094)

Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.

Signal and Track Switch Repairers (SOC:49-9097)

Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.

Installation, Maintenance, and Repair Workers, All Other (SOC:49-9099)*

All installation, maintenance, and repair workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Electronic Home Entertainment Equipment Installers and Repairers (SOC:49-2097)

Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems, or other electronic home entertainment equipment.

Production Occupations (51)

Aircraft Structure, Surfaces, Rigging, and Systems Assemblers (SOC:51-2011)

Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselage, bulkheads, stabilizers, landing gear, rigging and control equipment, or heating and ventilating systems.

Electrical and Electronic Equipment Assemblers (SOC:51-2022)

Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.

Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC:51-4011)

Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.

Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (SOC:51-4012)

Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems.

Machinists (SOC:51-4041)

Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.

Welders, Cutters, Solderers, and Brazers (SOC:51-4121)

Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (SOC:51-4122)

Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.

Prepress Technicians and Workers (SOC:51-5111)

Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.

Printing Press Operators (SOC:51-5112)

Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.

Model Makers, Wood (SOC:51-7031)

Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.

Patternmakers, Wood (SOC:51-7032)

Plan, lay out, and construct wooden unit or sectional patterns used in forming sand molds for castings.

Woodworkers, All Other (SOC:51-7099)*

All woodworkers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Power Distributors and Dispatchers (SOC:51-8012)

Coordinate, regulate, or distribute electricity or steam.

Water and Wastewater Treatment Plant and System Operators (SOC:51-8031)

Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.

Chemical Plant and System Operators (SOC:51-8091)

Control or operate entire chemical processes or system of machines.

Petroleum Pump System Operators, Refinery Operators, and Gaugers (SOC:51-8093)

Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.

Chemical Equipment Operators and Tenders (SOC:51-9011)

Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels.

Inspectors, Testers, Sorters, Samplers, and Weighers (SOC:51-9061)

Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

Jewelers and Precious Stone and Metal Workers (SOC:51-9071)

Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, and persons who perform precision casting and modeling of molds, casting metal in molds, or setting precious and semi-precious stones for jewelry and related products.

Dental Laboratory Technicians (SOC:51-9081)

Construct and repair full or partial dentures or dental appliances.

Ophthalmic Laboratory Technicians (SOC:51-9083)

Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Includes precision lens polishers or grinders, centerer-edgers, and lens mounters.

Semiconductor Processors (SOC:51-9141)

Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments; load individual segment into crystal growing chamber and monitor controls; locate crystal axis in ingot using x-ray equipment and saw ingots into wafers; and clean, polish, and load wafers into series of special purpose furnaces, chemical baths, and equipment used to form circuitry and change conductive properties.

Photographic Process Workers and Processing Machine Operators (SOC:51-9151)

Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.

Engine and Other Machine Assemblers (SOC:51-2031)

Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.

Structural Metal Fabricators and Fitters (SOC:51-2041)

Fabricate, position, align, and fit parts of structural metal products.

Tool and Die Makers (SOC:51-4111)

Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

Nuclear Power Reactor Operators (SOC:51-8011)

Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures when needed. May respond to abnormalities, determine cause, and recommend corrective action.

Power Plant Operators (SOC:51-8013)

Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators.

Stationary Engineers and Boiler Operators (SOC:51-8021)

Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.

Gas Plant Operators (SOC:51-8092)

Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.

Plant and System Operators, All Other (SOC:51-8099)*

All plant and system operators not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders (SOC:51-9012)

Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills. These machines extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Includes dairy processing equipment operators.

Medical Appliance Technicians (SOC:51-9082)

Construct, fit, maintain, or repair medical supportive devices, such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.

Etchers and Engravers (SOC:51-9194)

Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers.

Tire Builders (SOC:51-9197)

Operate machines to build tires.

Molders, Shapers, and Casters, Except Metal and Plastic (SOC:51-9195)

Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.

Transportation and Material Moving Occupations (53)

First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators (SOC:53-1031)

Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.

Commercial Pilots (SOC:53-2012)

Pilot and navigate the flight of fixed-winged aircraft on nonscheduled air carrier routes, or helicopters. Requires Commercial Pilot certificate. Includes charter pilots with similar certification, and air ambulance and air tour pilots.

Air Traffic Controllers (SOC:53-2021)

Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.

Airfield Operations Specialists (SOC:53-2022)

Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel; dispatching; using airfield landing and navigational aids; implementing airfield safety procedures; monitoring and maintaining flight records; and applying knowledge of weather information.

Flight Attendants (SOC:53-2031)

Provide personal services to ensure the safety, security, and comfort of airline passengers during flight. Greet passengers, verify tickets, explain use of safety equipment, and serve food or beverages.

Bus Drivers, Transit and Intercity (SOC:53-3021)

Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.

Bus Drivers, School or Special Client (SOC:53-3022)

Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.

Heavy and Tractor-Trailer Truck Drivers (SOC:53-3032)

Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.

Locomotive Engineers (SOC:53-4011)

Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.

Motorboat Operators (SOC:53-5022)

Operate small motor-driven boats. May assist in navigational activities.

Ship Engineers (SOC:53-5031)

Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.

Transportation Inspectors (SOC:53-6051)

Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors; rail inspectors; and other inspectors of transportation vehicles, not elsewhere classified.

Transportation Attendants, Except Flight Attendants (SOC:53-6061)

Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties such as greeting passengers, explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel.

Ambulance Drivers and Attendants, Except Emergency Medical Technicians (SOC:53-3011)

Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.

Locomotive Firers (SOC:53-4012)

Monitor locomotive instruments and watch for dragging equipment, obstacles on rights-of-way, and train signals during run. Watch for and relay traffic signals from yard workers to yard engineer in railroad yard.

Rail Yard Engineers, Dinkey Operators, and Hostlers (SOC:53-4013)

Drive switching or other locomotive or dinkey engines within railroad yard, industrial plant, quarry, construction project, or similar location.

Railroad Brake, Signal, and Switch Operators (SOC:53-4021)

Operate railroad track switches. Couple or uncouple rolling stock to make up or break up trains. Signal engineers by hand or flagging. May inspect couplings, air hoses, journal boxes, and hand brakes.

Railroad Conductors and Yardmasters (SOC:53-4031)

Coordinate activities of switch-engine crew within railroad yard, industrial plant, or similar location. Conductors coordinate activities of train crew on passenger or freight trains. Yardmasters review train schedules and switching orders and coordinate activities of workers engaged in railroad traffic operations, such as the makeup or breakup of trains and yard switching.

Subway and Streetcar Operators (SOC:53-4041)

Operate subway or elevated suburban trains with no separate locomotive, or electric-powered streetcar, to transport passengers. May handle fares.

Rail Transportation Workers, All Other (SOC:53-4099)*

All rail transportation workers not listed separately.

*For further detail on all other occupations please visit www.onetonline.org/

Traffic Technicians (SOC:53-6041)

Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.

Captains, Mates, and Pilots of Water Vessels (SOC:53-5021)

Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard.