

Taxonomy from *New Guide for Occupational Exploration: Linking Interests, Learning, and Careers*, Fourth Edition

by Michael Farr and Laurence Shatkin, Ph.D.

Copyright © 2006 by JIST Works, Inc. All rights reserved. This edition introduces many changes to the GOE's original structure of Interest Areas and Work Groups. If you want to use this revised structure in your own publications or databases, we encourage you to do so and are making it easy for you to use. For details, write to info@jist.com.

1. Agriculture and Natural Resources

DOE Definition: Planning, managing, and performing agricultural production and horticulture and landscaping services and related professional and technical services, mining and extraction operations, and managing and conserving natural resources and related environmental services.

Definition in GOE Format: An interest in working with plants, animals, forests, or mineral resources for agriculture, horticulture, conservation, extraction, and other purposes. You can satisfy this interest by working in farming, landscaping, forestry, fishing, mining, and related fields. You may like doing physical work outdoors, such as on a farm or ranch, in a forest, or on a drilling rig. If you have scientific curiosity, you could study plants and animals or analyze biological or rock samples in a lab. If you have management ability, you could own, operate, or manage a fish hatchery, a landscaping business, or a greenhouse.

01.01 Managerial Work in Agriculture and Natural Resources

11-9011.01 Nursery and Greenhouse Managers

11-9011.02 Agricultural Crop Farm Managers

11-9011.03 Fish Hatchery Managers

11-9012.00 Farmers and Ranchers

13-1021.00 Purchasing Agents and Buyers, Farm Products

19-1031.03 Park Naturalists

37-1012.01 Lawn Service Managers

37-1012.02 First-Line Supervisors and Manager/Supervisors—Landscaping Workers

45-1011.01 First-Line Supervisors and Manager/Supervisors—Agricultural Crop Workers

45-1011.02 First-Line Supervisors and Manager/Supervisors—Animal Husbandry Workers

45-1011.04 First-Line Supervisors and Manager/Supervisors—Horticultural Workers

45-1011.05 First-Line Supervisors and Manager/Supervisors—Logging Workers

45-1011.06 First-Line Supervisors and Manager/Supervisors—Fishery Workers

47-1011.02 First-Line Supervisors and Manager/Supervisors—Extractive Workers

01.02 Resource Science/Engineering for Plants, Animals, and the Environment

17-2021.00 Agricultural Engineers

17-2081.00 Environmental Engineers

17-2151.00 Mining and Geological Engineers, Including Mining Safety Engineers

17-2171.00 Petroleum Engineers

19-1011.00 Animal Scientists

19-1013.01 Plant Scientists

19-1013.02 Soil Scientists

19-1023.00 Zoologists and Wildlife Biologists

19-1031.01 Soil Conservationists

19-1031.02 Range Managers

19-1032.00 Foresters

01.03 Resource Technologies for Plants, Animals, and the Environment

19-1012.00 Food Scientists and Technologists

19-4011.01 Agricultural Technicians
19-4011.02 Food Science Technicians
19-4041.01 Geological Data Technicians
19-4041.02 Geological Sample Test Technicians
19-4091.00 Environmental Science and Protection Technicians, Including Health
19-4093.00 Forest and Conservation Technicians

01.04 General Farming

45-2091.00 Agricultural Equipment Operators
45-2092.02 General Farmworkers
45-2093.00 Farmworkers, Farm and Ranch Animals

01.05 Nursery, Groundskeeping, and Pest Control

37-2021.00 Pest Control Workers
37-3011.00 Landscaping and Groundskeeping Workers
37-3012.00 Pesticide Handlers, Sprayers, and Applicators, Vegetation
37-3013.00 Tree Trimmers and Pruners
45-2092.01 Nursery Workers

01.06 Forestry and Logging

45-4011.00 Forest and Conservation Workers
45-4021.00 Fallers
45-4022.01 Logging Tractor Operators
45-4023.00 Log Graders and Scalers

01.07 Hunting and Fishing

45-3011.00 Fishers and Related Fishing Workers
45-3021.00 Hunters and Trappers

01.08 Mining and Drilling

47-5011.00 Derrick Operators, Oil and Gas
47-5012.00 Rotary Drill Operators, Oil and Gas
47-5013.00 Service Unit Operators, Oil, Gas, and Mining
47-5021.01 Construction Drillers
47-5021.02 Well and Core Drill Operators
47-5031.00 Explosives Workers, Ordnance Handling Experts, and Blasters
47-5041.00 Continuous Mining Machine Operators
47-5042.00 Mine Cutting and Channeling Machine Operators
47-5051.00 Rock Splitters, Quarry
47-5061.00 Roof Bolters, Mining
47-5071.00 Roustabouts, Oil and Gas
47-5081.00 Helpers—Extraction Workers
53-7032.01 Excavating and Loading Machine Operators
53-7033.00 Loading Machine Operators, Underground Mining
53-7073.00 Wellhead Pumpers
53-7111.00 Shuttle Car Operators

2. Architecture and Construction

DOE Definition: Designing, planning, managing, building, and maintaining physical structures and the larger building environment including roadways and bridges and industrial, commercial, and residential facilities and buildings. (Note: Definition doesn't encompass some of the installation and repair occupations in 02.05.)

Definition in GOE Format: An interest in designing assembling, and maintaining components of buildings and other structures. You may want to be part of the team of architects, drafters, and others who design buildings and render the plans. If construction interests you, you can find fulfillment in the many building projects that are being undertaken at all times. If you like to organize and plan, you can find careers in managing these projects. Or you can play a more direct role in putting up and finishing buildings by doing jobs such as plumbing, carpentry, masonry, painting, or roofing, either as a skilled craftworker or as a helper. You can prepare the building site

by operating heavy equipment or install, maintain, and repair vital building equipment and systems such as electricity and heating.

02.01 Managerial Work in Architecture/Construction

11-9021.00 Construction Managers

47-1011.01 First-Line Supervisors and Manager/Supervisors—Construction Trades Workers

02.02 Architectural Design

17-1011.00 Architects, Except Landscape and Naval

17-1012.00 Landscape Architects

02.03 Architecture/Construction Engineering Technologies

17-1022.00 Surveyors

17-3011.01 Architectural Drafters

17-3011.02 Civil Drafters

17-3012.02 Electrical Drafters

47-4011.00 Construction and Building Inspectors

02.04 Construction Crafts

47-2011.00 Boilermakers

47-2021.00 Brickmasons and Blockmasons

47-2022.00 Stonemasons

47-2031.01 Construction Carpenters

47-2031.02 Rough Carpenters

47-2031.04 Ship Carpenters and Joiners

47-2031.05 Boat Builders and Shipwrights

47-2031.06 Brattice Builders

47-2041.00 Carpet Installers

47-2042.00 Floor Layers, Except Carpet, Wood, and Hard Tiles

47-2043.00 Floor Sanders and Finishers

47-2044.00 Tile and Marble Setters

47-2051.00 Cement Masons and Concrete Finishers

47-2053.00 Terrazzo Workers and Finishers

47-2071.00 Paving, Surfacing, and Tamping Equipment Operators

47-2072.00 Pile-Driver Operators

47-2073.01 Grader, Bulldozer, and Scraper Operators

47-2073.02 Operating Engineers

47-2081.01 Ceiling Tile Installers

47-2081.02 Drywall Installers

47-2082.00 Tapers

47-2111.00 Electricians

47-2121.00 Glaziers

47-2131.00 Insulation Workers, Floor, Ceiling, and Wall

47-2132.00 Insulation Workers, Mechanical

47-2141.00 Painters, Construction and Maintenance

47-2142.00 Paperhangers

47-2151.00 Pipelayers

47-2152.01 Pipe Fitters

47-2152.02 Plumbers

47-2152.03 Pipelaying Fitters

47-2161.00 Plasterers and Stucco Masons

47-2171.00 Reinforcing Iron and Rebar Workers

47-2181.00 Roofers

47-2211.00 Sheet Metal Workers

47-2221.00 Structural Iron and Steel Workers

47-4031.00 Fence Erectors

47-4041.00 Hazardous Materials Removal Workers

47-4061.00 Rail-Track Laying and Maintenance Equipment Operators

47-4091.00 Segmental Pavers
49-2098.00 Security and Fire Alarm Systems Installers
49-9045.00 Refractory Materials Repairers, Except Brickmasons
49-9092.00 Commercial Divers
49-9095.00 Manufactured Building and Mobile Home Installers
49-9096.00 Riggers
51-9195.03 Stone Cutters and Carvers
53-7021.00 Crane and Tower Operators
53-7032.02 Dragline Operators
02.05 Systems and Equipment Installation, Maintenance, and Repair
47-4021.00 Elevator Installers and Repairers
49-2022.01 Central Office and PBX Installers and Repairers
49-2022.02 Frame Wires, Central Office
49-2022.03 Communication Equipment Mechanics, Installers, and Repairers
49-2022.04 Telecommunications Facility Examiners
49-2022.05 Station Installers and Repairers, Telephone
49-2095.00 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
49-9012.01 Electric Meter Installers and Repairers
49-9012.03 Meter Mechanics
49-9021.01 Heating and Air Conditioning Mechanics
49-9021.02 Refrigeration Mechanics
49-9031.01 Home Appliance Installers
49-9042.00 Maintenance and Repair Workers, General
49-9051.00 Electrical Power-Line Installers and Repairers
49-9052.00 Telecommunications Line Installers and Repairers

02.06 Construction Support/Labor

47-2031.03 Carpenter Assemblers and Repairers
47-2061.00 Construction Laborers
47-3011.00 Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
47-3012.00 Helpers—Carpenters
47-3013.00 Helpers—Electricians
47-3014.00 Helpers—Painters, Paperhangers, Plasterers, and Stucco Masons
47-3015.00 Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters
47-4051.00 Highway Maintenance Workers
47-4071.00 Septic Tank Servicers and Sewer Pipe Cleaners
49-9098.00 Helpers—Installation, Maintenance, and Repair Workers
53-7062.02 Grips and Set-Up Workers, Motion Picture Sets, Studios, and Stages

3. Arts and Communication

DOE Definition: Designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services.

Definition in GOE Format: An interest in creatively expressing feelings or ideas, in communicating news or information, or in performing. You can satisfy this interest in creative, verbal, or performing activities. For example, if you enjoy literature, perhaps writing or editing would appeal to you.

Journalism and public relations are other fields for people who like to use their writing or speaking skills. Do you prefer to work in the performing arts? If so, you could direct or perform in drama, music, or dance. If you especially enjoy the visual arts, you could create paintings, sculpture, or ceramics, or design products or visual displays. A flair for technology might lead you to specialize in photography, broadcast production, or dispatching.

03.01 Managerial Work in Arts and Communication

11-2031.00 Public Relations Managers
13-1011.00 Agents and Business Managers of Artists, Performers, and Athletes
27-1011.00 Art Directors

27-2012.01 Producers
27-2012.03 Program Directors
27-2012.05 Technical Directors/Managers

03.02 Writing and Editing

27-3041.00 Editors
27-3042.00 Technical Writers
27-3043.01 Poets and Lyricists
27-3043.02 Creative Writers
27-3043.04 Copy Writers

03.03 News, Broadcasting, and Public Relations

27-3021.00 Broadcast News Analysts
27-3022.00 Reporters and Correspondents
27-3031.00 Public Relations Specialists
27-3043.03 Caption Writers
27-3091.00 Interpreters and Translators

03.04 Studio Art

27-1013.01 Painters and Illustrators
27-1013.02 Sketch Artists
27-1013.03 Cartoonists
27-1013.04 Sculptors
51-9195.05 Potters

03.05 Design

27-1021.00 Commercial and Industrial Designers
27-1022.00 Fashion Designers
27-1023.00 Floral Designers
27-1024.00 Graphic Designers
27-1025.00 Interior Designers
27-1026.00 Merchandise Displayers and Window Trimmers
27-1027.01 Set Designers
27-1027.02 Exhibit Designers

03.06 Drama

27-2011.00 Actors
27-2012.02 Directors—Stage, Motion Pictures, Television, and Radio
27-3011.00 Radio and Television Announcers
27-3012.00 Public Address System and Other Announcers
39-3092.00 Costume Attendants
39-5091.00 Makeup Artists, Theatrical and Performance

03.07 Music

27-2012.04 Talent Directors
27-2041.01 Music Directors
27-2041.02 Music Arrangers and Orchestrators
27-2041.03 Composers
27-2042.01 Singers
27-2042.02 Musicians, Instrumental

03.08 Dance

27-2031.00 Dancers
27-2032.00 Choreographers

03.09 Media Technology

27-1014.00 Multi-Media Artists and Animators
27-4011.00 Audio and Video Equipment Technicians
27-4012.00 Broadcast Technicians
27-4013.00 Radio Operators
27-4014.00 Sound Engineering Technicians
27-4021.01 Professional Photographers
27-4031.00 Camera Operators, Television, Video, and Motion Picture
27-4032.00 Film and Video Editors

51-9131.01 Photographic Retouchers and Restorers
51-9131.02 Photographic Reproduction Technicians
51-9131.03 Photographic Hand Developers

03.10 Communications Technology

43-2021.01 Directory Assistance Operators
43-2021.02 Central Office Operators
43-5031.00 Police, Fire, and Ambulance Dispatchers
43-5032.00 Dispatchers, Except Police, Fire, and Ambulance
53-2021.00 Air Traffic Controllers
53-2022.00 Airfield Operations Specialists

03.11 Musical Instrument Repair

49-9063.01 Keyboard Instrument Repairers and Tuners
49-9063.02 Stringed Instrument Repairers and Tuners
49-9063.03 Reed or Wind Instrument Repairers and Tuners
49-9063.04 Percussion Instrument Repairers and Tuners

4. Business and Administration

DOE Definition: planning, managing, and providing administrative support, information processing, accounting and human resource management services and related management support services.

Definition in GOE Format: An interest in making a business organization or function run smoothly. You can satisfy this interest by working in a position of leadership or by specializing in a function that contributes to the overall effort in a business, nonprofit organization, or a government agency. If you especially enjoy working with people, you may find fulfillment from working in human resources. An interest in numbers may lead you to consider accounting, finance, budgeting, billing, or financial record-keeping. A job as an administrative assistant may interest you if you like a variety of work in a busy environment. If you are good with details and word processing, you may enjoy a job as a secretary or data entry keyer. Or perhaps you would do well as the manager of a business.

04.01 Managerial Work in General Business

11-1011.00 Chief Executives
11-1011.02 Private Sector Executives
11-1021.00 General and Operations Managers
11-3040.00 Human Resources Managers
11-3041.00 Compensation and Benefits Managers
11-3042.00 Training and Development Managers

04.02 Managerial Work in Business Detail

11-3011.00 Administrative Services Managers
13-1121.00 Meeting and Convention Planners
37-1011.01 Housekeeping Supervisors
37-1011.02 Janitorial Supervisors
43-1011.01 First-Line Supervisors, Customer Service
43-1011.02 First-Line Supervisors, Administrative Support

04.03 Human Resources Support

13-1071.01 Employment Interviewers, Private or Public Employment Service
13-1071.02 Personnel Recruiters
13-1072.00 Compensation, Benefits, and Job Analysis Specialists
13-1073.00 Training and Development Specialists

04.04 Secretarial Support

43-6011.00 Executive Secretaries and Administrative Assistants
43-6012.00 Legal Secretaries
43-6013.00 Medical Secretaries
43-6014.00 Secretaries, Except Legal, Medical, and Executive

04.05 Accounting, Auditing, and Analytical Support

13-1081.00 Logisticians

13-1111.00 Management Analysts
13-2011.01 Accountants
13-2011.02 Auditors
13-2031.00 Budget Analysts
15-2031.00 Operations Research Analysts
17-3026.00 Industrial Engineering Technicians

04.06 Mathematical Clerical Support

13-2082.00 Tax Preparers
43-3021.01 Statement Clerks
43-3021.02 Billing, Cost, and Rate Clerks
43-3031.00 Bookkeeping, Accounting, and Auditing Clerks
43-3051.00 Payroll and Timekeeping Clerks
43-4011.00 Brokerage Clerks

04.07 Records and Materials Processing

43-3061.00 Procurement Clerks
43-4021.00 Correspondence Clerks
43-4071.00 File Clerks
43-4161.00 Human Resources Assistants, Except Payroll and Timekeeping
43-5041.00 Meter Readers, Utilities
43-5051.00 Postal Service Clerks
43-5053.00 Postal Service Mail Sorters, Processors, and Processing Machine Operators
43-5061.00 Production, Planning, and Expediting Clerks
43-5071.00 Shipping, Receiving, and Traffic Clerks
43-5081.01 Stock Clerks, Sales Floor
43-5081.02 Marking Clerks
43-5081.03 Stock Clerks—Stockroom, Warehouse, or Storage Yard
43-5081.04 Order Fillers, Wholesale and Retail Sales
43-5111.00 Weighers, Measurers, Checkers, and Samplers, Recordkeeping
43-9061.00 Office Clerks, General

04.08 Clerical Machine Operation

43-3021.03 Billing, Posting, and Calculating Machine Operators
43-9021.00 Data Entry Keyers
43-9022.00 Word Processors and Typists
43-9051.01 Mail Machine Operators, Preparation and Handling
43-9051.02 Mail Clerks, Except Mail Machine Operators and Postal Service
43-9071.01 Duplicating Machine Operators
43-2011.00 Switchboard Operators, Including Answering Service

5. Education and Training

DOE Definition: planning, managing, and providing education and training services and related learning support services, including assessment and library and information services.

Definition in GOE Format: An interest in helping people learn. You can satisfy this interest by teaching students who may be preschoolers, retirees, or any age in between. You may specialize in a particular academic field or work with learners of a particular age, with a particular interest, or with a particular learning problem. Working in a library or museum may give you an opportunity to expand people's understanding of the world.

05.01 Managerial Work in Education

11-9031.00 Education Administrators, Preschool and Child Care Center/Program
11-9032.00 Education Administrators, Elementary and Secondary School
11-9033.00 Education Administrators, Postsecondary
25-9031.00 Instructional Coordinators

05.02 Pre-school, Elementary, and Secondary Teaching and Instructing

25-2011.00 Preschool Teachers, Except Special Education

25-2012.00 Kindergarten Teachers, Except Special Education
25-2021.00 Elementary School Teachers, Except Special Education
25-2022.00 Middle School Teachers, Except Special and Vocational Education
25-2023.00 Vocational Education Teachers, Middle School
25-2031.00 Secondary School Teachers, Except Special and Vocational Education
25-2032.00 Vocational Education Teachers, Secondary School
25-2041.00 Special Education Teachers, Preschool, Kindergarten, and Elementary School
25-2042.00 Special Education Teachers, Middle School
25-2043.00 Special Education Teachers, Secondary School
25-9041.00 Teacher Assistants

05.03 Postsecondary and Adult Teaching and Instructing

25-1011.00 Business Teachers, Postsecondary
25-1021.00 Computer Science Teachers, Postsecondary
25-1022.00 Mathematical Science Teachers, Postsecondary
25-1031.00 Architecture Teachers, Postsecondary
25-1032.00 Engineering Teachers, Postsecondary
25-1041.00 Agricultural Sciences Teachers, Postsecondary
25-1042.00 Biological Science Teachers, Postsecondary
25-1043.00 Forestry and Conservation Science Teachers, Postsecondary
25-1051.00 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
25-1052.00 Chemistry Teachers, Postsecondary
25-1053.00 Environmental Science Teachers, Postsecondary
25-1054.00 Physics Teachers, Postsecondary
25-1061.00 Anthropology and Archeology Teachers, Postsecondary
25-1062.00 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1063.00 Economics Teachers, Postsecondary
25-1064.00 Geography Teachers, Postsecondary
25-1065.00 Political Science Teachers, Postsecondary
25-1066.00 Psychology Teachers, Postsecondary
25-1067.00 Sociology Teachers, Postsecondary
25-1071.00 Health Specialties Teachers, Postsecondary
25-1072.00 Nursing Instructors and Teachers, Postsecondary
25-1081.00 Education Teachers, Postsecondary
25-1082.00 Library Science Teachers, Postsecondary
25-1111.00 Criminal Justice and Law Enforcement Teachers, Postsecondary
25-1112.00 Law Teachers, Postsecondary
25-1113.00 Social Work Teachers, Postsecondary
25-1121.00 Art, Drama, and Music Teachers, Postsecondary
25-1122.00 Communications Teachers, Postsecondary
25-1123.00 English Language and Literature Teachers, Postsecondary
25-1124.00 Foreign Language and Literature Teachers, Postsecondary
25-1125.00 History Teachers, Postsecondary
25-1126.00 Philosophy and Religion Teachers, Postsecondary
25-1191.00 Graduate Teaching Assistants
25-1192.00 Home Economics Teachers, Postsecondary
25-1193.00 Recreation and Fitness Studies Teachers, Postsecondary
25-1194.00 Vocational Education Teachers, Postsecondary
25-3011.00 Adult Literacy, Remedial Education, and GED Teachers and Instructors
25-3021.00 Self-Enrichment Education Teachers
25-9021.00 Farm and Home Management Advisors

05.04 Library Services

25-4021.00 Librarians
25-4031.00 Library Technicians
43-4121.00 Library Assistants, Clerical

05.05 Archival and Museum Services

25-4011.00 Archivists

25-4012.00 Curators
25-4013.00 Museum Technicians and Conservators
25-9011.00 Audio-Visual Collections Specialists
05.06 Counseling, Health, and Fitness Education
21-1012.00 Educational, Vocational, and School Counselors
21-1091.00 Health Educators
39-9031.00 Fitness Trainers and Aerobics Instructors

6. Finance and Insurance

DOE Definition: planning, managing, and providing banking, investment, financial planning, and insurance services.

Definition in GOE Format: An interest in helping businesses and people be assured of a financially secure future. You can satisfy this interest by working in a financial or insurance business in a leadership or support role. If you like gathering and analyzing information, you may find fulfillment as an insurance adjuster or financial analyst. Or you may deal with information at the clerical level as a financial or insurance clerk, or in person-to-person situations providing customer service. Another way to interact with people is to sell financial or insurance services that will meet their needs.

06.01 Managerial Work in Finance and Insurance

11-3031.01 Treasurers, Controllers, and Chief Financial Officers
11-3031.02 Financial Managers, Branch or Department

06.02 Finance/Insurance Investigation and Analysis

13-1031.01 Claims Examiners, Property and Casualty Insurance
13-1031.02 Insurance Adjusters, Examiners, and Investigators
13-1032.00 Insurance Appraisers, Auto Damage
13-1051.00 Cost Estimators
13-2021.01 Assessors
13-2021.02 Appraisers, Real Estate
13-2041.00 Credit Analysts
13-2051.00 Financial Analysts
13-2053.00 Insurance Underwriters
13-2071.00 Loan Counselors
13-2072.00 Loan Officers
19-3021.00 Market Research Analysts
19-3022.00 Survey Researchers

06.03 Finance/Insurance Records Processing

43-4041.01 Credit Authorizers
43-4041.02 Credit Checkers
43-9041.01 Insurance Claims Clerks
43-9041.02 Insurance Policy Processing Clerks
43-9081.00 Proofreaders and Copy Markers

06.04 Finance/Insurance Customer Service

43-3011.00 Bill and Account Collectors
43-3071.00 Tellers
43-4131.00 Loan Interviewers and Clerks
43-4141.00 New Accounts Clerks

06.05 Finance/Insurance Sales and Support

13-2052.00 Personal Financial Advisors
41-3011.00 Advertising Sales Agents
41-3021.00 Insurance Sales Agents
41-3031.01 Sales Agents, Securities and Commodities
41-3031.02 Sales Agents, Financial Services

7. Government and Public Administration

DOE Definition: planning, managing, and providing government, legislative, administrative, and regulatory services and related general purpose government services at the federal, state and local levels.

Definition in GOE Format: An interest in helping a government agency serve the needs of the public. You can satisfy this interest by working in a position of leadership or by specializing in a function that contributes to the role of government. You may help protect the public by working as an inspector or examiner to enforce standards. If you enjoy using clerical skills, you may work as a clerk in a law court or government office. Or perhaps you prefer the top-down perspective of a government executive or city planner.

07.01 Managerial Work in Government and Public Administration

11-1011.01 Government Service Executives

11-9151.00 Social and Community Service Managers

07.02 Public Planning

19-3051.00 Urban and Regional Planners

19-4061.01 City Planning Aides

07.03 Regulations Enforcement

13-1041.01 Environmental Compliance Inspectors

13-1041.02 Licensing Examiners and Inspectors

13-1041.03 Equal Opportunity Representatives and Officers

13-1041.04 Government Property Inspectors and Investigators

13-1041.05 Pressure Vessel Inspectors

13-2061.00 Financial Examiners

13-2081.00 Tax Examiners, Collectors, and Revenue Agents

19-4051.02 Nuclear Monitoring Technicians

29-9011.00 Occupational Health and Safety Specialists

33-2021.01 Fire Inspectors

33-2022.00 Forest Fire Inspectors and Prevention Specialists

33-3021.04 Child Support, Missing Persons, and Unemployment Insurance Fraud Investigators

33-3021.05 Immigration and Customs Inspectors

33-3031.00 Fish and Game Wardens

45-2011.00 Agricultural Inspectors

51-9061.02 Mechanical Inspectors

53-6051.01 Aviation Inspectors

53-6051.03 Marine Cargo Inspectors

53-6051.04 Railroad Inspectors

53-6051.05 Motor Vehicle Inspectors

07.04 Public Administration Clerical Support

23-2091.00 Court Reporters

43-4031.01 Court Clerks

43-4031.02 Municipal Clerks

43-4031.03 License Clerks

8. Health Science

DOE Definition: planning, managing, and providing diagnostic, therapeutic, and information and environmental services in health care.

Definition in GOE Format: An interest in helping people and animals be healthy. You can satisfy this interest by working in a health-care team as a doctor, therapist, or nurse. You might specialize in one of the many different parts of the body (such as the teeth or eyes) or in one of the many different types of care. Or you may wish to be a generalist who deals with the whole patient. If you like technology, you might find satisfaction working with X-rays or new methods of diagnosis. You might

work with healthy people, helping them eat right. If you enjoy working with animals, you might care for them and keep them healthy.

08.01 Managerial Work in Medical and Health Services

11-9111.00 Medical and Health Services Managers

13-1041.06 Coroners

45-1011.03 First-Line Supervisors and Manager/Supervisors—Animal Care Workers, Except Livestock

08.02 Medicine and Surgery

29-1051.00 Pharmacists

29-1061.00 Anesthesiologists

29-1062.00 Family and General Practitioners

29-1063.00 Internists, General

29-1064.00 Obstetricians and Gynecologists

29-1065.00 Pediatricians, General

29-1066.00 Psychiatrists

29-1067.00 Surgeons

29-1071.00 Physician Assistants

29-1111.00 Registered Nurses

29-2052.00 Pharmacy Technicians

29-2055.00 Surgical Technologists

31-9092.00 Medical Assistants

31-9094.00 Medical Transcriptionists

31-9095.00 Pharmacy Aides

08.03 Dentistry

29-1021.00 Dentists, General

29-1022.00 Oral and Maxillofacial Surgeons

29-1023.00 Orthodontists

29-1024.00 Prosthodontists

29-2021.00 Dental Hygienists

31-9091.00 Dental Assistants

08.04 Health Specialties

29-1011.00 Chiropractors

29-1041.00 Optometrists

29-1081.00 Podiatrists

08.05 Animal Care

29-1131.00 Veterinarians

29-2056.00 Veterinary Technologists and Technicians

31-9096.00 Veterinary Assistants and Laboratory Animal Caretakers

39-2011.00 Animal Trainers

39-2021.00 Nonfarm Animal Caretakers

45-2021.00 Animal Breeders

08.06 Medical Technology

19-4021.00 Biological Technicians

29-2011.00 Medical and Clinical Laboratory Technologists

29-2012.00 Medical and Clinical Laboratory Technicians

29-2031.00 Cardiovascular Technologists and Technicians

29-2032.00 Diagnostic Medical Sonographers

29-2033.00 Nuclear Medicine Technologists

29-2034.01 Radiologic Technologists

29-2034.02 Radiologic Technicians

29-2071.00 Medical Records and Health Information Technicians

29-2081.00 Opticians, Dispensing

29-2091.00 Orthotists and Prosthetists

31-9093.00 Medical Equipment Preparers

08.07 Medical Therapy

29-1121.00 Audiologists
29-1122.00 Occupational Therapists
29-1123.00 Physical Therapists
29-1124.00 Radiation Therapists
29-1125.00 Recreational Therapists
29-1126.00 Respiratory Therapists
29-1127.00 Speech-Language Pathologists
29-2054.00 Respiratory Therapy Technicians
31-2011.00 Occupational Therapist Assistants
31-2012.00 Occupational Therapist Aides
31-2021.00 Physical Therapist Assistants
31-2022.00 Physical Therapist Aides
31-9011.00 Massage Therapists

08.08 Patient Care and Assistance

29-2053.00 Psychiatric Technicians
29-2061.00 Licensed Practical and Licensed Vocational Nurses
31-1011.00 Home Health Aides
31-1012.00 Nursing Aides, Orderlies, and Attendants
31-1013.00 Psychiatric Aides

08.09 Health Protection and Promotion

29-1031.00 Dietitians and Nutritionists
29-2051.00 Dietetic Technicians
29-9091.00 Athletic Trainers
39-4011.00 Embalmers

9. Hospitality, Tourism, and Recreation

DOE Definition: planning, managing, and providing lodging, food, recreation, convention and tourism, and related planning and support services such as travel-related services.

Definition in GOE Format: An interest in catering to the personal wishes and needs of others, so that they may enjoy a clean environment, good food and drink, comfortable lodging away from home, and recreation. You can satisfy this interest by providing services for the convenience, care, and pampering of others in hotels, restaurants, airplanes, beauty parlors, and so on. You may wish to use your love of cooking as a chef. If you like working with people, you may wish to provide personal services by being a travel guide, a flight attendant, a concierge, a hairdresser, or a waiter. You may wish to work in cleaning and building services if you like a clean environment. If you enjoy sports or games, you may work for an athletic team or casino.

09.01 Managerial Work in Hospitality and Tourism

11-9051.00 Food Service Managers
11-9071.00 Gaming Managers
11-9081.00 Lodging Managers
35-1012.00 First-Line Supervisors/Managers of Food Preparation and Serving Workers
39-1011.00 Gaming Supervisors
39-1021.00 First-Line Supervisors/Managers of Personal Service Workers

09.02 Recreational Services

39-1012.00 Slot Key Persons
39-3011.00 Gaming Dealers
39-3012.00 Gaming and Sports Book Writers and Runners
39-3021.00 Motion Picture Projectionists
39-3031.00 Ushers, Lobby Attendants, and Ticket Takers
39-3091.00 Amusement and Recreation Attendants
39-3093.00 Locker Room, Coatroom, and Dressing Room Attendants

39-9032.00 Recreation Workers

09.03 Hospitality and Travel Services

37-2011.00 Janitors and Cleaners, Except Maids and Housekeeping Cleaners

37-2012.00 Maids and Housekeeping Cleaners

39-6011.00 Baggage Porters and Bellhops

39-6012.00 Concierges

39-6021.00 Tour Guides and Escorts

39-6022.00 Travel Guides

39-6031.00 Flight Attendants

39-6032.00 Transportation Attendants, Except Flight Attendants and Baggage Porters

41-3041.00 Travel Agents

43-4081.00 Hotel, Motel, and Resort Desk Clerks

43-4181.01 Travel Clerks

43-4181.02 Reservation and Transportation Ticket Agents

09.04 Food and Beverage Preparation

35-1011.00 Chefs and Head Cooks

35-2011.00 Cooks, Fast Food

35-2012.00 Cooks, Institution and Cafeteria

35-2014.00 Cooks, Restaurant

35-2015.00 Cooks, Short Order

35-2021.00 Food Preparation Workers

35-9021.00 Dishwashers

51-3011.01 Bakers, Bread and Pastry

51-3021.00 Butchers and Meat Cutters

09.05 Food and Beverage Service

35-3011.00 Bartenders

35-3021.00 Combined Food Preparation and Serving Workers, Including Fast Food

35-3022.00 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop

35-3031.00 Waiters and Waitresses

35-3041.00 Food Servers, Nonrestaurant

35-9011.00 Dining Room and Cafeteria Attendants and Bartender Helpers

35-9031.00 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop

09.06 Sports

27-2021.00 Athletes and Sports Competitors

27-2022.00 Coaches and Scouts

27-2023.00 Umpires, Referees, and Other Sports Officials

09.07 Barber and Beauty Services

39-5011.00 Barbers

39-5012.00 Hairdressers, Hairstylists, and Cosmetologists

39-5092.00 Manicurists and Pedicurists

39-5093.00 Shampooers

39-5094.00 Skin Care Specialists

10. Human Service

DOE Definition: planning, managing, and providing human services including social and related community services.

Definition in GOE Format: An interest in improving people's social, mental, emotional, or spiritual well-being. You can satisfy this interest as a counselor, social worker, or religious worker who helps people sort out their complicated lives or solve personal problems. You may work as a caretaker for very young people or the elderly. Or you may interview people to help identify the social services they need.

10.01 Counseling and Social Work

19-3031.02 Clinical Psychologists

19-3031.03 Counseling Psychologists
21-1011.00 Substance Abuse and Behavioral Disorder Counselors
21-1013.00 Marriage and Family Therapists
21-1014.00 Mental Health Counselors
21-1015.00 Rehabilitation Counselors
21-1021.00 Child, Family, and School Social Workers
21-1022.00 Medical and Public Health Social Workers
21-1023.00 Mental Health and Substance Abuse Social Workers
21-1092.00 Probation Officers and Correctional Treatment Specialists
21-1093.00 Social and Human Service Assistants
39-9041.00 Residential Advisors

10.02 Religious Work

21-2011.00 Clergy
21-2021.00 Directors, Religious Activities and Education

10.03 Child/Personal Care and Services

39-4021.00 Funeral Attendants
39-9011.00 Child Care Workers
39-9011.01 Nannies
39-9021.00 Personal and Home Care Aides

10.04 Client Interviewing

43-4061.01 Claims Takers, Unemployment Benefits
43-4061.02 Welfare Eligibility Workers and Interviewers
43-4111.00 Interviewers, Except Eligibility and Loan

11. Information Technology

DOE Definition: designing, developing, managing, and supporting hardware, software, multimedia, and systems integration services.

Definition in GOE Format: An interest in designing, developing, managing, and supporting information systems. You can satisfy this interest by working with hardware, software, multimedia, or integrated systems. If you like to use your organizational skills, you might work as an administrator of a system or database. Or you can solve complex problems as a software engineer or systems analyst. If you enjoy getting your hands on the hardware, you might find work servicing computers, peripherals, and information-intense machines such as cash registers and ATMs.

11.01 Managerial Work in Information Technology

11-3021.00 Computer and Information Systems Managers
15-1071.00 Network and Computer Systems Administrators

11.02 Information Technology Specialties

15-1021.00 Computer Programmers
15-1031.00 Computer Software Engineers, Applications
15-1032.00 Computer Software Engineers, Systems Software
15-1041.00 Computer Support Specialists
15-1051.00 Computer Systems Analysts
15-1061.00 Database Administrators
15-1071.01 Computer Security Specialists
15-1081.00 Network Systems and Data Communications Analysts

43-9011.00 Computer Operators

11.03 Digital Equipment Repair

49-2011.01 Automatic Teller Machine Servicers
49-2011.02 Data Processing Equipment Repairers
49-2011.03 Office Machine and Cash Register Servicers
49-9091.00 Coin, Vending, and Amusement Machine Servicers and Repairers

12. Law and Public Safety

DOE Definition: planning, managing, and providing judicial, legal, and protective services, including professional and technical support services in the fire protection and criminal justice systems.

Definition in GOE Format: An interest in upholding people's rights, or in protecting people and property by using authority, inspecting, or investigating. You can satisfy this interest by working in law, law enforcement, fire fighting, the military, and related fields. For example, if you enjoy mental challenge and intrigue, you could investigate crimes or fires for a living. If you enjoy working with verbal skills and research skills, you may want to defend citizens in court or research deeds, wills, and other legal documents. If you want to help people in critical situations, you may want to fight fires, work as a police officer, or become a paramedic. Or, if you want more routine work in public safety, perhaps a job in guarding, patrolling, or inspecting would appeal to you. If you have management ability, you could seek a leadership position in law enforcement and the protective services. Work in the military gives you a chance to use technical and leadership skills while serving your country.

12.01 Managerial Work in Law and Public Safety

- 33-1011.00 First-Line Supervisors/Managers of Correctional Officers
- 33-1012.00 First-Line Supervisors/Managers of Police and Detectives
- 33-1021.01 Municipal Fire Fighting and Prevention Supervisors
- 33-1021.02 Forest Fire Fighting and Prevention Supervisors
- 33-1061.00 Emergency Management Specialists

12.02 Legal Practice and Justice Administration

- 23-1011.00 Lawyers
- 23-1021.00 Administrative Law Judges, Adjudicators, and Hearing Officers
- 23-1022.00 Arbitrators, Mediators, and Conciliators
- 23-1023.00 Judges, Magistrate Judges, and Magistrates

12.03 Legal Support

- 23-2011.00 Paralegals and Legal Assistants
- 23-2092.00 Law Clerks
- 23-2093.01 Title Searchers
- 23-2093.02 Title Examiners and Abstractors

12.04 Law Enforcement and Public Safety

- 19-4092.00 Forensic Science Technicians
- 33-2021.02 Fire Investigators
- 33-3011.00 Bailiffs
- 33-3012.00 Correctional Officers and Jailers
- 33-3021.01 Police Detectives
- 33-3021.02 Police Identification and Records Officers
- 33-3021.03 Criminal Investigators and Special Agents
- 33-3041.00 Parking Enforcement Workers
- 33-3051.01 Police Patrol Officers
- 33-3051.02 Highway Patrol Pilots
- 33-3051.03 Sheriffs and Deputy Sheriffs
- 33-3052.00 Transit and Railroad Police

12.05 Safety and Security

- 33-9011.00 Animal Control Workers
- 33-9021.00 Private Detectives and Investigators
- 33-9032.00 Security Guards
- 33-9031.00 Gaming Surveillance Officers and Gaming Investigators
- 33-9091.00 Crossing Guards
- 33-9092.00 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers

12.06 Emergency Responding

- 29-2041.00 Emergency Medical Technicians and Paramedics
- 33-2011.01 Municipal Fire Fighters

33-2011.02 Forest Fire Fighters

1207 Military

55-1011.00 Air Crew Officers

55-1012.00 Aircraft Launch and Recovery Officers

55-1013.00 Armored Assault Vehicle Officers

55-1014.00 Artillery and Missile Officers

55-1015.00 Command and Control Center Officers

55-1016.00 Infantry Officers

55-1017.00 Special Forces Officers

55-2011.00 First-Line Supervisors/Managers of Air Crew Members

55-2012.00 First-Line Supervisors/Managers of Weapons Specialists/Crew Members

55-3011.00 Air Crew Members

55-3012.00 Aircraft Launch and Recovery Specialists

55-3013.00 Armored Assault Vehicle Crew Members

55-3014.00 Artillery and Missile Crew Members

55-3015.00 Command and Control Center Specialists

55-3016.00 Infantry

55-3017.00 Radar and Sonar Technicians

55-3018.00 Special Forces

13. Manufacturing

DOE Definition: planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Definition in GOE Format: An interest in processing materials into intermediate or final products or maintaining and repairing products by using machines or hand tools. You can satisfy this interest by working in one of many industries that mass-produce goods or by working for a utility that distributes electric power or other resources. You may enjoy manual work, using your hands or hand tools in highly skilled jobs such as assembling engines or electronic equipment. If you enjoy making machines run efficiently or fixing them when they break down, you could seek a job installing or repairing such devices as copiers, aircraft engines, cars, or watches. Perhaps you prefer to set up or operate machines that are used to manufacture products made of food, glass, or paper. You may enjoy cutting and grinding metal and plastic parts to desired shapes and measurements. Or you may wish to operate equipment in systems that provide water and process wastewater. You may like inspecting, sorting, counting, or weighing products. Another option is to work with your hands and machinery to move boxes and freight in a warehouse. If leadership appeals to you, you could manage people engaged in production and repair.

13.01 Managerial Work in Manufacturing

11-3051.00 Industrial Production Managers

49-1011.00 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers

51-1011.00 First-Line Supervisors/Managers of Production and Operating Workers

53-1021.00 First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand

13.02 Machine Set-Up and Operation

51-4021.00 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic

51-4022.00 Forging Machine Setters, Operators, and Tenders, Metal and Plastic

51-4023.00 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic

51-4031.01 Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic

51-4031.02 Punching Machine Setters and Set-Up Operators, Metal and Plastic

51-4031.03 Press and Press Brake Machine Setters and Set-Up Operators, Metal and Plastic

51-4031.04 Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic

51-4032.00 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic

51-4033.01 Grinding, Honing, Lapping, and Deburring Machine Set-Up Operators

51-4033.02 Buffing and Polishing Set-Up Operators

51-4034.00 Lathe and Turning Machine Tool Setters, Operators, and Tenders Metal and Plastic
51-4035.00 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
51-4072.01 Plastic Molding and Casting Machine Setters and Set-Up Operators
51-4072.03 Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators
51-4072.04 Metal Molding, Coremaking, and Casting Machine Operators and Tenders
51-4072.05 Casting Machine Set-Up Operators
51-4081.00 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4081.01 Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic
51-4122.03 Soldering and Brazing Machine Setters and Set-Up Operators
51-4191.01 Heating Equipment Setters and Set-Up Operators, Metal and Plastic
51-4193.01 Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
51-4193.03 Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic
51-5011.01 Bindery Machine Setters and Set-Up Operators
51-5023.06 Screen Printing Machine Setters and Set-Up Operators
51-6062.00 Textile Cutting Machine Setters, Operators, and Tenders
51-6063.00 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
51-6064.00 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
51-6091.00 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
51-7041.01 Sawing Machine Setters and Set-Up Operators
51-7042.01 Woodworking Machine Setters and Set-Up Operators, Except Sawing
51-9021.00 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
51-9032.01 Fiber Product Cutting Machine Setters and Set-Up Operators
51-9032.03 Glass Cutting Machine Setters and Set-Up Operators
51-9041.01 Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators
51-9121.01 Coating, Painting, and Spraying Machine Setters and Set-Up Operators
51-9196.00 Paper Goods Machine Setters, Operators, and Tenders

13.03 Production Work, Assorted Materials Processing

51-2092.00 Team Assemblers
51-3011.02 Bakers, Manufacturing
51-3022.00 Meat, Poultry, and Fish Cutters and Trimmers
51-3023.00 Slaughterers and Meat Packers
51-3091.00 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
51-3092.00 Food Batchmakers
51-3093.00 Food Cooking Machine Operators and Tenders
51-4051.00 Metal-Refining Furnace Operators and Tenders
51-4052.00 Pourers and Casters, Metal
51-4072.02 Plastic Molding and Casting Machine Operators and Tenders
51-4081.02 Combination Machine Tool Operators and Tenders, Metal and Plastic
51-4191.02 Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic
51-4191.03 Heaters, Metal and Plastic
51-4193.02 Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
51-4193.04 Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic
51-6021.02 Pressing Machine Operators and Tenders—Textile, Garment, and Related Materials
51-6031.01 Sewing Machine Operators, Garment
51-6031.02 Sewing Machine Operators, Non-Garment
51-6042.00 Shoe Machine Operators and Tenders
51-6061.00 Textile Bleaching and Dyeing Machine Operators and Tenders
51-6091.01 Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers
51-7041.02 Sawing Machine Operators and Tenders
51-7042.02 Woodworking Machine Operators and Tenders, Except Sawing
51-9011.01 Chemical Equipment Controllers and Operators
51-9011.02 Chemical Equipment Tenders
51-9012.00 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders
51-9023.00 Mixing and Blending Machine Setters, Operators, and Tenders
51-9032.02 Stone Sawyers
51-9032.04 Cutting and Slicing Machine Operators and Tenders

51-9041.02 Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders
51-9051.00 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
51-9111.00 Packaging and Filling Machine Operators and Tenders
51-9121.02 Coating, Painting, and Spraying Machine Operators and Tenders
51-9191.00 Cementing and Gluing Machine Operators and Tenders
51-9192.00 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
51-9193.00 Cooling and Freezing Equipment Operators and Tenders
51-9197.00 Tire Builders
51-9198.01 Production Laborers
51-9198.02 Production Helpers

13.04 Welding, Brazing, Soldering

51-2041.01 Metal Fabricators, Structural Metal Products
51-2041.02 Fitters, Structural Metal—Precision
51-4121.01 Welders, Production
51-4121.02 Welders and Cutters
51-4121.03 Welder-Fitters
51-4121.04 Solderers
51-4121.05 Brazers
51-4122.01 Welding Machine Setters and Set-Up Operators
51-4122.02 Welding Machine Operators and Tenders
51-4122.04 Soldering and Brazing Machine Operators and Tenders

13.05 Production Machining Technology

51-4011.01 Numerical Control Machine Tool Operators and Tenders, Metal and Plastic
51-4012.00 Numerical Tool and Process Control Programmers
51-4041.00 Machinists
51-4061.00 Model Makers, Metal and Plastic
51-4062.00 Patternmakers, Metal and Plastic
51-4071.00 Foundry Mold and Coremakers
51-4111.00 Tool and Die Makers
51-4192.00 Lay-Out Workers, Metal and Plastic
51-4194.00 Tool Grinders, Filers, and Sharpeners

13.06 Production Precision Work

51-2022.00 Electrical and Electronic Equipment Assemblers
51-2023.00 Electromechanical Equipment Assemblers
51-2031.00 Engine and Other Machine Assemblers
51-2093.00 Timing Device Assemblers, Adjusters, and Calibrators
51-5012.00 Bookbinders
51-9071.01 Jewelers
51-9071.02 Silversmiths
51-9071.03 Model and Mold Makers, Jewelry
51-9071.04 Bench Workers, Jewelry
51-9071.05 Pewter Casters and Finishers
51-9071.06 Gem and Diamond Workers
51-9081.00 Dental Laboratory Technicians
51-9082.00 Medical Appliance Technicians
51-9083.01 Precision Lens Grinders and Polishers
51-9083.02 Optical Instrument Assemblers
51-9141.00 Semiconductor Processors
51-9195.01 Precision Mold and Pattern Casters, except Nonferrous Metals
51-9195.02 Precision Pattern and Die Casters, Nonferrous Metals

13.07 Production Quality Control

45-2041.00 Graders and Sorters, Agricultural Products
51-9061.01 Materials Inspectors
51-9061.03 Precision Devices Inspectors and Testers
51-9061.04 Electrical and Electronic Inspectors and Testers
51-9061.05 Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers

13.08 Graphic Arts Production

43-9031.00 Desktop Publishers
51-5011.02 Bindery Machine Operators and Tenders
51-5021.00 Job Printers
51-5022.01 Hand Compositors and Typesetters
51-5022.02 Paste-Up Workers
51-5022.03 Photoengravers
51-5022.04 Camera Operators
51-5022.05 Scanner Operators
51-5022.06 Strippers
51-5022.07 Platemakers
51-5022.08 Dot Etchers
51-5022.09 Electronic Masking System Operators
51-5022.10 Electrotypers and Stereotypers
51-5022.11 Plate Finishers
51-5022.12 Typesetting and Composing Machine Operators and Tenders
51-5022.13 Photoengraving and Lithographing Machine Operators and Tenders
51-5023.01 Precision Printing Workers
51-5023.02 Offset Lithographic Press Setters and Set-Up Operators
51-5023.03 Letterpress Setters and Set-Up Operators
51-5023.04 Design Printing Machine Setters and Set-Up Operators
51-5023.05 Marking and Identification Printing Machine Setters and Set-Up Operators
51-5023.07 Embossing Machine Set-Up Operators
51-5023.08 Engraver Set-Up Operators
51-5023.09 Printing Press Machine Operators and Tenders
51-9131.04 Film Laboratory Technicians
51-9132.00 Photographic Processing Machine Operators
51-9194.01 Precision Etchers and Engravers, Hand or Machine
51-9194.02 Engravers/Carvers
51-9194.03 Etchers
51-9194.04 Pantograph Engravers
51-9194.05 Etchers, Hand
51-9194.06 Engravers, Hand

13.09 Hands-on Work, Assorted Materials

51-2021.00 Coil Winders, Tapers, and Finishers
51-6051.00 Sewers, Hand
51-6092.00 Fabric and Apparel Patternmakers
51-9022.00 Grinding and Polishing Workers, Hand
51-9031.00 Cutters and Trimmers, Hand
51-9122.00 Painters, Transportation Equipment
51-9123.00 Painting, Coating, and Decorating Workers
51-9195.04 Glass Blowers, Molders, Benders, and Finishers
51-9195.06 Mold Makers, Hand
51-9195.07 Molding and Casting Workers

13.10 Woodworking Technology

51-7011.00 Cabinetmakers and Bench Carpenters
51-7021.00 Furniture Finishers
51-7031.00 Model Makers, Wood
51-7032.00 Patternmakers, Wood

13.11 Apparel, Shoes, Leather, and Fabric Care

49-9093.00 Fabric Menders, Except Garment
51-6011.01 Spotters, Dry Cleaning
51-6011.02 Precision Dyers
51-6011.03 Laundry and Drycleaning Machine Operators and Tenders, Except Pressing
51-6021.01 Pressers, Delicate Fabrics

51-6021.03 Pressers, Hand
51-6041.00 Shoe and Leather Workers and Repairers
51-6052.01 Shop and Alteration Tailors
51-6052.02 Custom Tailors
51-6093.00 Upholsterers

13.12 Electrical and Electronic Repair

49-2021.00 Radio Mechanics
49-2091.00 Avionics Technicians
49-2092.01 Electric Home Appliance and Power Tool Repairers
49-2092.02 Electric Motor and Switch Assemblers and Repairers
49-2092.03 Battery Repairers
49-2092.04 Transformer Repairers
49-2092.05 Electrical Parts Reconditioners
49-2093.00 Electrical and Electronics Installers and Repairers, Transportation Equipment
49-2094.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-2096.00 Electronic Equipment Installers and Repairers, Motor Vehicles
49-2097.00 Electronic Home Entertainment Equipment Installers and Repairers

13.13 Machinery Repair

49-2092.06 Hand and Portable Power Tool Repairers
49-3091.00 Bicycle Repairers
49-9011.00 Mechanical Door Repairers
49-9012.02 Valve and Regulator Repairers
49-9031.02 Gas Appliance Repairers
49-9041.00 Industrial Machinery Mechanics
49-9043.00 Maintenance Workers, Machinery
49-9044.00 Millwrights
49-9094.00 Locksmiths and Safe Repairers
49-9097.00 Signal and Track Switch Repairers

13.14 Vehicle and Facility Mechanical Work

49-3011.01 Airframe and Power-Plant Mechanics
49-3011.02 Aircraft Engine Specialists
49-3011.03 Aircraft Body and Bonded Structure Repairers
49-3021.00 Automotive Body and Related Repairers
49-3022.00 Automotive Glass Installers and Repairers
49-3023.01 Automotive Master Mechanics
49-3023.02 Automotive Specialty Technicians
49-3031.00 Bus and Truck Mechanics and Diesel Engine Specialists
49-3041.00 Farm Equipment Mechanics
49-3042.00 Mobile Heavy Equipment Mechanics, Except Engines
49-3043.00 Rail Car Repairers
49-3051.00 Motorboat Mechanics
49-3052.00 Motorcycle Mechanics
49-3053.00 Outdoor Power Equipment and Other Small Engine Mechanics
49-3092.00 Recreational Vehicle Service Technicians
49-3093.00 Tire Repairers and Changers
51-2011.01 Aircraft Structure Assemblers, Precision
51-2011.02 Aircraft Systems Assemblers, Precision
51-2011.03 Aircraft Rigging Assemblers
51-2091.00 Fiberglass Laminators and Fabricators

13.15 Medical and Technical Equipment Repair

49-9061.00 Camera and Photographic Equipment Repairers
49-9062.00 Medical Equipment Repairers
49-9064.00 Watch Repairers

13.16 Utility Operation and Energy Distribution

51-8011.00 Nuclear Power Reactor Operators
51-8012.00 Power Distributors and Dispatchers

51-8013.01 Power Generating Plant Operators, Except Auxiliary Equipment Operators
51-8013.02 Auxiliary Equipment Operators, Power
51-8021.01 Boiler Operators and Tenders, Low Pressure
51-8021.02 Stationary Engineers
51-8031.00 Water and Liquid Waste Treatment Plant and System Operators
51-8091.00 Chemical Plant and System Operators
51-8092.01 Gas Processing Plant Operators
51-8092.02 Gas Distribution Plant Operators
51-8093.01 Petroleum Pump System Operators
51-8093.02 Petroleum Refinery and Control Panel Operators
51-8093.03 Gaugers
53-5031.00 Ship Engineers
53-7071.01 Gas Pumping Station Operators
53-7071.02 Gas Compressor Operators

13.17 Loading, Moving, Hoisting, and Conveying

47-4041.01 Irradiated-Fuel Handlers
53-7011.00 Conveyor Operators and Tenders
53-7041.00 Hoist and Winch Operators
53-7051.00 Industrial Truck and Tractor Operators
53-7062.03 Freight, Stock, and Material Movers, Hand
53-7063.00 Machine Feeders and Offbearers
53-7064.00 Packers and Packagers, Hand
53-7072.00 Pump Operators, Except Wellhead Pumps
53-7081.00 Refuse and Recyclable Material Collectors
53-7121.00 Tank Car, Truck, and Ship Loaders

14. Retail and Wholesale Sales and Service

DOE Definition: planning, managing, and performing wholesaling and retailing services and related marketing and distribution support services including merchandise/product management and promotion.

Definition in GOE Format: An interest in bringing others to a particular point of view by personal persuasion and by sales and promotional techniques. You can satisfy this interest in a variety of jobs that involve persuasion and selling. If you like using knowledge of science, you may enjoy selling pharmaceutical, medical, or electronic products or services. Real estate offers several kinds of sales jobs as well. If you like speaking on the phone, you could work as a telemarketer. Or you may enjoy selling apparel and other merchandise in a retail setting. If you prefer to help people, you may want a job in customer service.

14.01 Managerial Work in Retail/Wholesale Sales and Service

11-2011.00 Advertising and Promotions Managers
11-2021.00 Marketing Managers
11-2022.00 Sales Managers
11-3061.00 Purchasing Managers
11-9061.00 Funeral Directors
11-9141.00 Property, Real Estate, and Community Association Managers
41-1011.00 First-Line Supervisors/Managers of Retail Sales Workers
41-1012.00 First-Line Supervisors/Managers of Non-Retail Sales Workers

14.02 Technical Sales

41-4011.01 Sales Representatives, Agricultural
41-4011.02 Sales Representatives, Chemical and Pharmaceutical
41-4011.03 Sales Representatives, Electrical/Electronic
41-4011.04 Sales Representatives, Mechanical Equipment and Supplies
41-4011.05 Sales Representatives, Medical
41-4011.06 Sales Representatives, Instruments

41-9031.00 Sales Engineers

14.03 General Sales

41-2022.00 Parts Salespersons

41-2031.00 Retail Salespersons

41-4012.00 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products

41-9021.00 Real Estate Sales Brokers

41-9022.00 Real Estate Sales Agents

53-6031.00 Service Station Attendants

14.04 Personal Soliciting

41-9011.00 Demonstrators and Product Promoters

41-9012.00 Models

41-9041.00 Telemarketers

41-9091.00 Door-To-Door Sales Workers, News and Street Vendors, and Related Workers

14.05 Purchasing

13-1022.00 Wholesale and Retail Buyers, Except Farm Products

13-1023.00 Purchasing Agents, Except Wholesale, Retail, and Farm Products

14.06 Customer Service

41-2011.00 Cashiers

41-2012.00 Gaming Change Persons and Booth Cashiers

41-2021.00 Counter and Rental Clerks

43-4051.01 Adjustment Clerks

43-4051.02 Customer Service Representatives, Utilities

43-4151.00 Order Clerks

43-4171.00 Receptionists and Information Clerks

15. Scientific Research, Engineering, and Mathematics

DOE Definition: planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services and research and development services.

Definition in GOE Format: An interest in discovering, collecting, and analyzing information about the natural world, in applying scientific research findings to problems in medicine, the life sciences, human behavior, and the natural sciences, in imagining and manipulating quantitative data, and in applying technology to manufacturing, transportation, and other economic activities. You can satisfy this interest by working with the knowledge and processes of the sciences. You may enjoy researching and developing new knowledge in mathematics, or perhaps solving problems in the physical, life, or social sciences would appeal to you. You may wish to study engineering and help create new machines, processes, and structures. If you want to work with scientific equipment and procedures, you could seek a job in a research or testing laboratory.

15.01 Managerial Work in Scientific Research, Engineering, and Mathematics

11-9041.00 Engineering Managers

11-9121.00 Natural Sciences Managers

15.02 Physical Sciences

19-2011.00 Astronomers

19-2012.00 Physicists

19-2021.00 Atmospheric and Space Scientists

19-2031.00 Chemists

19-2032.00 Materials Scientists

19-2042.01 Geologists

19-2043.00 Hydrologists

19-3092.00 Geographers

15.03 Life Sciences

19-1020.01 Biologists

19-1021.01 Biochemists

19-1021.02 Biophysicists
19-1022.00 Microbiologists
19-1041.00 Epidemiologists
19-1042.00 Medical Scientists, Except Epidemiologists
19-2041.00 Environmental Scientists and Specialists, Including Health

15.04 Social Sciences

19-3011.00 Economists
19-3031.01 Educational Psychologists
19-3032.00 Industrial-Organizational Psychologists
19-3041.00 Sociologists
19-3091.01 Anthropologists
19-3091.02 Archeologists
19-3093.00 Historians
19-3094.00 Political Scientists

15.05 Physical Science Laboratory Technology

19-4031.00 Chemical Technicians
19-4051.01 Nuclear Equipment Operation Technicians

15.06 Mathematics and Data Analysis

15-2011.00 Actuaries
15-2021.00 Mathematicians
15-2091.00 Mathematical Technicians
19-4061.00 Social Science Research Assistants

15.07 Research and Design Engineering

17-2011.00 Aerospace Engineers
17-2031.00 Biomedical Engineers
17-2041.00 Chemical Engineers
17-2051.00 Civil Engineers
17-2061.00 Computer Hardware Engineers
17-2071.00 Electrical Engineers
17-2072.00 Electronics Engineers, Except Computer
17-2121.01 Marine Engineers
17-2121.02 Marine Architects
17-2131.00 Materials Engineers
17-2141.00 Mechanical Engineers
17-2161.00 Nuclear Engineers

15.08 Industrial and Safety Engineering

17-2111.01 Industrial Safety and Health Engineers
17-2111.02 Fire-Prevention and Protection Engineers
17-2111.03 Product Safety Engineers
17-2112.00 Industrial Engineers

15.09 Engineering Technology

17-1021.00 Cartographers and Photogrammetrists
17-3012.01 Electronic Drafters
17-3013.00 Mechanical Drafters
17-3021.00 Aerospace Engineering and Operations Technicians
17-3022.00 Civil Engineering Technicians
17-3023.01 Electronics Engineering Technicians
17-3023.02 Calibration and Instrumentation Technicians
17-3023.03 Electrical Engineering Technicians
17-3024.00 Electro-Mechanical Technicians
17-3025.00 Environmental Engineering Technicians
17-3027.00 Mechanical Engineering Technicians
17-3031.01 Surveying Technicians
17-3031.02 Mapping Technicians

16. Transportation, Distribution, and Logistics

DOE Definition: planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Definition in GOE Format: An interest in operations that move people or materials. You can satisfy this interest by managing a transportation service, by helping vehicles keep on their assigned schedules and routes, or by driving or piloting a vehicle. If you enjoy taking responsibility, perhaps managing a rail line would appeal to you. If you work well with details and can take pressure on the job, you might consider being an air traffic controller. Or would you rather get out on the highway, on the water, or up in the air? If so, then you could drive a truck from state to state, be employed on a ship, or fly a crop duster over a cornfield. If you prefer to stay closer to home, you could drive a delivery van, taxi, or school bus. You can use your physical strength to load freight and arrange it so it gets to its destination in one piece.

16.01 Managerial Work in Transportation

11-3071.01 Transportation Managers

11-3071.02 Storage and Distribution Managers

11-9131.00 Postmasters and Mail Superintendents

53-1011.00 Aircraft Cargo Handling Supervisors

53-1031.00 First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators

53-4031.00 Railroad Conductors and Yardmasters

16.02 Air Vehicle Operation

53-2011.00 Airline Pilots, Copilots, and Flight Engineers

53-2012.00 Commercial Pilots

16.03 Truck Driving

53-3032.01 Truck Drivers, Heavy

53-3032.02 Tractor-Trailer Truck Drivers

53-3033.00 Truck Drivers, Light or Delivery Services

16.04 Rail Vehicle Operation

53-4011.00 Locomotive Engineers

53-4012.00 Locomotive Firers

53-4013.00 Rail Yard Engineers, Dinkey Operators, and Hostlers

53-4041.00 Subway and Streetcar Operators

16.05 Water Vehicle Operation

53-5011.01 Able Seamen

53-5011.02 Ordinary Seamen and Marine Oilers

53-5021.01 Ship and Boat Captains

53-5021.02 Mates—Ship, Boat, and Barge

53-5021.03 Pilots, Ship

53-5022.00 Motorboat Operators

53-7031.00 Dredge Operators

16.06 Other Services Requiring Driving

43-5021.00 Couriers and Messengers

43-5052.00 Postal Service Mail Carriers

53-3011.00 Ambulance Drivers and Attendants, Except Emergency Medical Technicians

53-3021.00 Bus Drivers, Transit and Intercity

53-3022.00 Bus Drivers, School

53-3031.00 Driver/Sales Workers

53-3041.00 Taxi Drivers and Chauffeurs

53-6021.00 Parking Lot Attendants

16.07 Transportation Support Work

43-5011.00 Cargo and Freight Agents

53-4021.01 Train Crew Members

53-4021.02 Railroad Yard Workers
53-6011.00 Bridge and Lock Tenders
53-6041.00 Traffic Technicians
53-6051.02 Public Transportation Inspectors
53-6051.06 Freight Inspectors
53-7061.00 Cleaners of Vehicles and Equipment
53-7062.01 Stevedores, Except Equipment Operators