



Jackson Career Explorer (JCE)

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Occupations Guide

American Edition



Advancing the Science of Human Assessment since 1967.



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Introduction

The Jackson Career Explorer (JCE) provides the key to a wealth of occupational information. It generates this information based on a thorough assessment of an individual's career interests. These interests, known as the Basic Interests, are outlined in the first section of the JCE report. The individual's interests are then compared to those of people working in a wide variety of occupations. The JCE report ranks the similarity between each respondent's interests and those of people working in 30 Job Groups and presents detailed occupational information for each of the respondent's *top three* Job Groups.

This guide is a helpful resource for counselors and practitioners because it expands upon the top three job groups outlined in the individual's report, by providing detailed information for all 30 JCE job groups. See Table 1 for a list of all 30 Job Groups.

Table 1: The 30 JCE Job Groups

1. Medical Diagnosis & Treatment	16. Social Service & Mental Health
2. Sales & Business Development	17. Nature, Agriculture, & Environment
3. Protective Services & Public Safety	18. Physical Health & Recreation
4. Information Technology & Computers	19. Merchandising & Marketing
5. Communications & Writing	20. Entertainment
6. Financial & Business Services	21. Teaching & Instruction
7. Mathematics	22. Music
8. Law & Government	23. Commercial Art & Design
9. Health Services	24. Fine Art
10. Career & Guidance Counseling	25. Service & Hospitality
11. Engineering & Technical Support	26. Life Science & Research
12. Social Science & Research	27. Clerical & Administrative Support
13. Mediation & Persuasion	28. Management & Administration
14. Physical Science & Research	29. Machining & Mechanical Trades
15. Construction	30. Primary Education

The JCE report provides a comprehensive list of sample jobs from O*NET for each of the 30 Job Groups to help direct career seekers and explorers toward jobs that match their interests. Individuals are encouraged to explore jobs that match their interests and to conduct further self-assessment activities to determine compatibility of their abilities, values, personality, and other factors.

Structure of this Guide

This guide provides detailed information for each of the 30 Job Groups. This information is grouped into sections, which are described on the following pages, along with helpful instructions on how to make the most of the contents of this guide.

Job Group Description

A detailed description of each Job Group is presented, and includes information on specific job roles, responsibilities, and requirements for success, as well as training and education guidelines, and a reference to research further on O*NET.

High Basic Interests

This chart lists the JCE Basic Interests that are strong areas of interest for those people who are currently occupied in the job group. Use this section to identify areas of interest that the respondent shares with people occupied in the job group.

Low Basic Interests

This chart lists the JCE Basic Interests that are low areas of interest for those people who are currently occupied in the job group. Use this section to identify areas of low interest that the respondent shares with people occupied in the group.

Sample Job Titles

This section lists a comprehensive collection of job titles and their corresponding O*NET codes. Use the O*NET codes to look up additional information on the *Occupational Information Network* website. The sample jobs are listed according to required education or training level. In addition, the associated Work Personality code for each job is provided to help individuals narrow down their job search.

"Professional Associations"

This section lists professional organizations and trade associations for each job group. Professional associations can be valuable sources of information for career exploration, as they often provide industry-specific career resources as well as information on certification, education and training, professional development, scholarship opportunities, market trends, current events, and local contacts.

How to use this Guide

When should I use this Guide?

This guide can be particularly useful in circumstances where an individual receives high scores on more than 3 Job Groups. The extended information in this guide will allow you to research information on these additional Job Groups. Furthermore, you may wish to use this guide to reference information on a specific Job Group in cases where the individual indicates that he or she is seriously considering a career that is not included in his or her top 3 Job Groups.

How can I use this Guide to assist with interpretation of JCE results?

This guide allows you to identify areas of high and low interest that the individual shares with people employed in each of the 30 Job Groups. In cases where a Job Group is ranked unexpectedly high or low, it is important to keep in mind that the ranking is based on a comparison between the individual's *entire profile* of Basic Interests and the interest profiles of people employed in each Job Group. As a result, a high score on one Basic Interest will not always translate into a high-ranking on a corresponding Job Group. For example, an individual who scores high on the *Law* Basic Interest could still receive a neutral score for the *Law and Government* Job Group. This

is because, although the individual reported an interest in the typical job-related activities of lawyers, his or her entire profile of interests does not appear to match that of lawyers and those working in related occupations.

What should I do if a Job Group is ranked unexpectedly high?

Compare the individual's Basic Interest profile (in the JCE report) with the High Basic Interest and Low Basic Interest charts (in this Guide) for the Job Group in question. The charts will highlight the high and low interests of people employed in this Job Group. You will probably see similarities between the individual's profile and the charts. You may be able to reinforce the match by looking up some of the sample jobs associated with this Job Group in *O*NET*. You may find that the individual had not considered those jobs before. The Professional Associations and the Exploring My Options sections of the JCE Report can provide further guidance in determining fit with a particular Job Group.

What should I do if a Job Group is ranked unexpectedly low?

Again, compare the individual's Basic Interest profile (in the JCE report) with the High Basic Interest and Low Basic Interest charts (in this Guide) for the Job Group in question. The charts will highlight the high and low interests of people employed in this Job Group. You will probably see differences between the individual's profile and the charts. You will likely find that the individual is not interested in one or more important facets of that Job Group. Discuss the impact of this lack of interest with the individual, and whether the areas in which he or she lacks interest could significantly impact his or her satisfaction with that career choice. The Professional Associations and the Exploring My Options sections of the JCE Report can provide further guidance in determining fit with a particular Job Group.

Medical Diagnosis & Treatment Occupations

Occupations in **Medical Diagnosis & Treatment** include various branches of medicine that are highly focused on the prevention, diagnosis, and medical or surgical treatment of illness, disease, and disorders. Responsibilities may include examining patients, ordering, performing and interpreting diagnostic tests, prescribing medication or other therapies and treatments, and counseling patients on diet, hygiene and preventative healthcare. Occupations in this group require a high level of medical education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Medical Service	Business
Life Science	Sales
Physical Science	
Nature-Agriculture	
Engineering	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1041.06	Coroner	Inq, Pr, Co
29-1141.01	Acute Care Nurse	He, Inq, Pr
29-9093.00	Surgical Assistant	Co, He, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-2031.00	Biomedical Engineer	Lo, Inq, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
15-2041.01	Biostatistician	Lo, Inq, Co
29-1071.00	Physician Assistant	He, Inq, Pr
29-1071.01	Anesthesiologist Assistant	Pr, He, Lo
29-1081.00	Podiatrist	Inq, Lo, He
29-1141.02	Advanced Practice Psychiatric Nurse	He, Inq, Lo

Graduate Degree		
O*NET Code	Job Title	WP Code
29-1151.00	Nurse Anesthetist	Inq, Pr, He
29-1171.00	Nurse Practitioner	He, Inq, Pr
29-1211.00	Anesthesiologist	Inq, Pr, He
29-1213.00	Dermatologist	Inq, Lo, He
29-1215.00	Family & General Practitioner	Inq, Lo, He
29-1216.00	Internist, General	Inq, Lo, He
29-1217.00	Neurologist	Inq, Lo, He
29-1218.00	Obstetrician & Gynecologist	Inq, Lo, He
29-1221.00	Pediatrician, General	Inq, Lo, He
29-1222.00	Pathologist	Inq, Lo, Pr
29-1223.00	Psychiatrist	Inq, Lo, He
29-1224.00	Radiologist	Inq, Lo, Pr
29-1229.01	Allergist & Immunologist	Inq, Lo, He
29-1229.02	Hospitalist	He, Inq, Lo
29-1229.03	Urologist	Inq, Lo, He
29-1229.04	Physical Medicine & Rehabilitation Physician	Inq, Lo, He
29-1229.05	Preventive Medicine Physician	He, Inq, Lo
29-1229.06	Sports Medicine Physician	Inq, He, Pr
29-1241.00	Ophthalmologist, Except Pediatric	Inq, Lo, He
29-1242.00	Orthopedic Surgeons, Except Pediatric	Inq, Lo, Pr
29-1243.00	Pediatric Surgeons	Inq, Lo, Pr
29-1249.00	Surgeon	Inq, Lo, Pr
29-1299.01	Naturopathic Physician	Inq, Lo, He
29-1299.02	Orthoptist	Inq, He, Pr
29-2033.00	Nuclear Medicine Technologist	Inq, Lo, He

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Academy of Family Physicians www.aafp.org/home.html 	<ul style="list-style-type: none"> American Academy of Nurse Practitioners www.aanp.org
<ul style="list-style-type: none"> American Academy of Pediatrics www.aap.org 	<ul style="list-style-type: none"> American Association of Naturopathic Physicians www.naturopathic.org/
<ul style="list-style-type: none"> American College of Physicians www.acponline.org 	<ul style="list-style-type: none"> American College of Radiology www.acr.org

Professional Organizations	
<ul style="list-style-type: none"> • American Medical Association <i>www.ama-assn.org/</i> 	<ul style="list-style-type: none"> • American Medical Student Association <i>www.amsa.org/</i>
<ul style="list-style-type: none"> • American Podiatric Medical Association <i>www.apma.org/</i> 	<ul style="list-style-type: none"> • American Psychiatric Association <i>www.psychiatry.org/</i>
<ul style="list-style-type: none"> • American Society for Clinical Pathology <i>www.ascp.org/</i> 	<ul style="list-style-type: none"> • American Society of Anesthesiologists <i>www.asahq.org/</i>
<ul style="list-style-type: none"> • American Society of General Surgeons <i>http://theasgs.org/</i> 	<ul style="list-style-type: none"> • American Surgical Association <i>www.americansurgical.org/</i>
<ul style="list-style-type: none"> • National Association of Medical Examiners <i>www.thename.org</i> 	

Notes

Sales & Business Development

Occupations in **Sales & Business Development** cover a broad range of products and services, and might involve selling investments, insurance, real estate, advertising, or specific products and services. Jobs could involve telemarketing, customer service, retail sales, product demonstration, marketing, and advertising. Most sales work involves having a good understanding of the product or services and customer service skills. Look for sales work involving your other interests as well. On-the-job training is often provided but some employers require post-secondary education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Sales	Physical Science
Finance	Life Science
Business	Nature-Agriculture
Consulting	
Supervising Others	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
41-2011.00	Cashier	Co, St, En
41-2021.00	Counter & Rental Clerk	Co, St, En

High School Diploma		
O*NET Code	Job Title	WP Code
41-1011.00	First-Line Supervisor of Retail Sales Workers	En, As, Co
41-2012.00	Gaming Change Person & Booth Cashier	Co, St, En
41-2022.00	Parts Salesperson	En, As, Co
41-2031.00	Retail Salesperson	En, As, Co
41-9011.00	Demonstrator & Product Promoter	En, As, Co
41-9041.00	Telemarketer	En, Co
41-9091.00	Door-To-Door Sales Worker, News & Street Vendor, & Related Workers	En, As, Co
43-4051.00	Customer Service Representative	En, He, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
41-3011.00	Advertising Sales Agent	En, As, Co
41-3031.00	Sales Agent, Financial Services	En, As, Co
41-3041.00	Travel Agent	En, As, Co
41-4011.07	Solar Sales Representative & Assessor	En, Co, Pr
41-9022.00	Real Estate Sales Agent	En, As, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2022.00	Sales Manager	En, As, Co
11-9141.00	Property, Real Estate, & Community Association Manager	En, As, Co
13-1131.00	Fundraiser	En, Co, Ex
13-1161.01	Search Marketing Strategist	En, Inq, Co
41-1012.00	First-Line Supervisor of Non-Retail Sales Workers	En, As, Co
41-3021.00	Insurance Sales Agent	En, As, Co
41-3031.00	Sales Agent, Securities & Commodities	En, As, Co
41-3031.00	Securities & Commodities Trader	En, As, Co
41-3031.00	Energy Broker	En, As, Co
41-4011.00	Sales Representative, Wholesale & Manufacturing, Technical & Scientific Products	En, As, Co
41-4012.00	Sales Representative, Wholesale & Manufacturing	Co, En, As
41-9021.00	Real Estate Broker	En, As, Co
41-9031.00	Sales Engineer	En, Pr, Lo

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Advertising Federation www.aaf.org 	<ul style="list-style-type: none"> American Marketing Association www.ama.org
<ul style="list-style-type: none"> American Sales Association www.asa-sales.org 	<ul style="list-style-type: none"> American Society of Travel Agents www.asta.org
<ul style="list-style-type: none"> Business Professionals of America www.bpa.org/ 	<ul style="list-style-type: none"> Direct Selling Association www.dsa.org
<ul style="list-style-type: none"> Entrepreneurs' Organization www.eonetwork.org 	<ul style="list-style-type: none"> National Association of Pharmaceutical Sales Professionals www.napsronline.org/



Professional Organizations	
<ul style="list-style-type: none">• National Association of Professional Insurance Agents www.pianational.org/	<ul style="list-style-type: none">• National Association of Realtors www.nar.realtor/
<ul style="list-style-type: none">• National Association of Sales Professionals www.nasp.com	<ul style="list-style-type: none">• National Retail Federation https://nrf.com/
<ul style="list-style-type: none">• Sales & Marketing Executives International www.smei.org	

Notes

Protective Services & Public Safety

Occupations in **Protective Services & Public Safety** involve protecting the public from accidents, injury, crime, and fire, and providing emergency services to people in need. Jobs in this area seek to ensure the health and safety of others by adhering to guidelines, laws and regulations. Responsibilities may include administering first aid, educating the public on fire and crime prevention or public and workplace safety, investigating crimes or accidents, or rescuing people from danger. Most jobs in this group require specialized training or education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Adventure	Teaching
Skilled Trades	Technical Writing
Authoritarian Leadership	Mathematics
Engineering	Performing Arts
Law	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
53-6011.00	Bridge & Lock Tender	Pr, Co, As

High School Diploma		
O*NET Code	Job Title	WP Code
33-2011.00	Forest Firefighter	Pr, He
33-3011.00	Bailiff	Pr, St, As
33-3012.00	Correctional Officer & Jailer	Pr, As, St
33-3041.00	Parking Enforcement Worker	Pr, Co, St
33-9011.00	Animal Control Worker	Pr, He, Co
33-9031.00	Gaming Surveillance Officer & Gaming Investigator	Pr, Co, St
33-9032.00	Security Guard	Pr, St, As
33-9091.00	Crossing Guard	He, En, Pr
33-9092.00	Lifeguard, Ski Patrol, & Other Recreational Protective Service Worker	Pr, He
33-9093.00	Transportation Security Screener	Pr, As, St
33-9099.02	Retail Loss Prevention Specialist	En, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
43-5031.00	Police, Fire, & Ambulance Dispatcher	Co, St, Pr
45-2011.00	Agricultural Inspector	Pr, Co, St
53-1041.00	Aircraft Cargo Handling Supervisor	En, Pr
53-1043.00	First-Line Supervisor of Transportation & Material-Moving Machine & Vehicle Operators	En, Co, Pr
53-3011.00	Ambulance Driver & Attendant, Except Emergency Medical Technician	Pr, He
53-3032.00	Heavy & Tractor-Trailer Truck Driver	Pr, Co
53-4022.00	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	Pr, Co
53-4031.00	Railroad Conductor & Yardmaster	En, Pr, Co
53-5011.00	Sailor & Marine Oiler	Pr, Co
53-5021.00	Mate- Ship, Boat, & Barge	En, Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1041.00	Compliance Officers	Co, St, En
13-1041.04	Government Property Inspector & Investigator	Co, En, Pr
13-1041.06	Coroner	Inq, Lo, Pr
19-5012.00	Occupational Health & Safety Technician	Co, St, Pr
29-2042.00	Emergency Medical Technician & Paramedic	He, Inq, Pr
33-1011.00	First-Line Supervisor of Correctional Officers	En, As, Co
33-1012.00	First-Line Supervisor of Police & Detectives	En, As, Co
33-1021.00	First-Line Supervisors of Firefighting and Prevention Workers	En, As, Pr
33-2011.00	Firefighter	Pr, He
33-2021.00	Fire Inspectors and Investigators	Co, St, Pr
33-2022.00	Forest Fire Inspector & Prevention Specialist	Pr, Co, St
33-3021.00	Police Detective	En, Inq, Lo
33-3021.02	Police Identification & Records Officer	Co, St, Pr
33-3021.00	Criminal Investigator & Special Agent	En, Inq, Lo
33-3051.04	Immigration & Customs Inspector	Co, En, As
33-3051.00	Police Patrol Officer	Pr, En, As
33-3051.00	Sheriff & Deputy Sheriff	En, As, Pr
33-3052.00	Transit & Railroad Police	Pr, As, St
33-9021.00	Private Detective & Investigator	En, As, Co
43-2099.00	Radio Operator	Pr, Co, St
49-2098.00	Security & Fire Alarm Systems Installer	Pr, Co, St
51-8012.00	Power Distributor & Dispatcher	Pr, Inq, Lo
53-2012.00	Commercial Pilot	Pr, Inf, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
53-2021.00	Air Traffic Controller	Pr, Lo, Inq
53-2022.00	Airfield Operations Specialist	En, Co, St
53-5021.00	Ship & Boat Captain	En, Pr
53-5021.00	Pilot, Ship	Pr, Co, Inf
53-6051.01	Aviation Inspector	Pr, Co, Lo

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3013.01	Security Manager	En, Co
11-9161.00	Emergency Management Director	He, En, As
13-1199.04	Business Continuity Planner	En, Inq, Co
13-1199.07	Security Management Specialist	Pr, Lo, Inq
17-2111.00	Industrial Safety & Health Engineer	Lo, Inq, Co
17-2111.02	Fire-Prevention & Protection Engineer	Lo, Inq, Pr
19-4092.00	Forensic Science Technician	Lo, Inq, Pr
19-5011.00	Occupational Health & Safety Specialist	Inq, Lo, Co
21-1092.00	Probation Officer & Correctional Treatment Specialist	He, En, As
33-3021.06	Intelligence Analyst	Inq, Co, En
33-3031.00	Fish & Game Warden	Pr, Inq, Lo
53-2011.00	Airline Pilot, Copilot, & Flight Engineer	Pr, Co, St
53-6051.00	Transportation Inspector	Pr, Co, St

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1111.00	Criminal Justice & Law Enforcement Teacher, Postsecondary	He, Inq

Military Specific Training		
O*NET Code	Job Title	WP Code
17-3029.00	Radar & Sonar Technician	
55-1011.00	Air Crew Officer	
55-1012.00	Aircraft Launch & Recovery Officer	
55-1013.00	Armored Assault Vehicle Officer	
55-1014.00	Artillery & Missile Officer	
55-1015.00	Command & Control Center Officer	

Military Specific Training		
O*NET Code	Job Title	WP Code
55-1016.00	Infantry Officer	
55-1017.00	Special Forces Officer	
55-2011.00	First-Line Supervisor of Air Crew Members	
55-2012.00	First-Line Supervisor of Weapons Specialists/Crew Members	
55-3011.00	Air Crew Member	
55-3012.00	Aircraft Launch & Recovery Specialist	
55-3013.00	Armored Assault Vehicle Crew Member	
55-3014.00	Artillery & Missile Crew Member	
55-3015.00	Command & Control Center Specialist	
55-3016.00	Infantry	
55-3018.00	Special Forces	

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Association for Justice www.justice.org 	<ul style="list-style-type: none"> American Association of Safety Councils http://safety-councils.org
<ul style="list-style-type: none"> American Correctional Association www.aca.org 	<ul style="list-style-type: none"> American Probation & Parole Association www.appa-net.org/eweb/
<ul style="list-style-type: none"> ASIS International - American Society for Industrial Security www.asisonline.org/ 	<ul style="list-style-type: none"> Association of Public-Safety Communications Officials www.apcointl.org/
<ul style="list-style-type: none"> Federal Bureau of Investigation www.fbi.gov 	<ul style="list-style-type: none"> International Association of Fire Chiefs www.iafc.org
<ul style="list-style-type: none"> International Police Association www.ipa-international.org/ 	<ul style="list-style-type: none"> National Association of Emergency Medical Technicians www.naemt.org
<ul style="list-style-type: none"> National Guard Association of the United States www.ngaus.org 	<ul style="list-style-type: none"> National Safety Council www.nsc.org
<ul style="list-style-type: none"> U.S. Army www.goarmy.com 	<ul style="list-style-type: none"> United States Lifesaving Association www.usla.org
<ul style="list-style-type: none"> United States Private Investigators Association www.private-investigator-info.org/us-private-investigator-associations.html 	

EXPLORE YOUR FUTURE



Notes

Information Technology & Computers

Occupations in **Information Technology & Computers** involve working with computers, numbers, and formulas. There are a wide range of jobs in this group. Duties and responsibilities might include developing, programming, maintaining, and updating computer applications and software, designing and evaluating network systems, designing Internet websites, and providing computer-related technical support. Most jobs in this group require either a university degree in computer science or engineering, or a specialized college diploma. Computers play a role in almost every discipline, so look for computer-related occupations involving your other interests as well. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Mathematics	Social Service
Engineering	Sales
Physical Science	Mediation & Persuasion
Endurance	
Skilled Trades	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
49-9052.00	Telecommunications Line Installer & Repairer	Pr, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
15-1232.00	Computer User Support Specialist	Pr, Lo, Inq
15-1241.01	Telecommunications Engineering Specialist	Pr, En, Co
15-1254.00	Web Developer	Co, Lo, Pr
15-1299.00	Computer Occupations, All Other	Co, St, Pr
15-1299.01	Web Administrator	Co, En, Lo
27-4011.00	Audio & Video Equipment Technician	Pr, Lo, Co
43-9031.00	Desktop Publisher	Ex, Lo, Co
49-2011.00	Computer, Automated Teller, & Office Machine Repairer	Pr, Co, St
49-2098.00	Security & Fire Alarm Systems Installer	Pr, Co, St
51-9162.00	Computer Numerically Controlled Machine Tool Programmer, Metal & Plastic	Co, Lo, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3021.00	Computer & Information Systems Manager	En, Co, Lo
13-1161.01	Search Marketing Strategist	En, Inq, Co
15-1121.00	Computer Systems Analyst	Lo, Co, St
15-1121.01	Health Informatics Specialist	He, Inq, Lo
15-1212.00	Information Security Analyst	Co, St, Lo
15-1231.00	Computer Network Support Specialist	Pr, En, Co
15-1241.00	Computer Network Architect	Inq, Co, En
15-1242.00	Database Administrator	Co, St, Lo
15-1243.00	Database Architect	Inq, Co, En
15-1243.01	Data Warehousing Specialist	Inq, Co
15-1244.00	Network & Computer Systems Administrator	Lo, Inq, Pr
15-1251.00	Computer Programmer	Lo, Inq, Co
15-1252.00	Software Developer	Lo, Pr, Co
15-1252.00	Software Developer, Systems Software	Lo, Co, Pr
15-1253.00	Software Quality Assurance Engineer & Tester	Lo, Co, Pr
15-1255.01	Video Game Designer	Ex, En
15-1299.02	Geographic Information Systems Technician	Lo, Inq, Pr
15-1299.03	Document Management Specialist	Co
15-1299.08	Computer Systems Engineer/Architect	Lo, Inq, Pr
15-1299.09	Information Technology Project Manager	En, Co
15-2051.01	Business Intelligence Analyst	Inq, En, Co
15-2051.02	Clinical Data Manager	Co, Lo, Inq
17-2061.00	Computer Hardware Engineer	Lo, Pr, Co
19-4099.03	Remote Sensing Technician	Pr, Lo, Co
25-4022.00	Audio-Visual & Multimedia Collections Specialist	Co, St, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
15-1221.00	Computer & Information Research Scientist	Lo, Pr, Co
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1021.00	Computer Science Teacher, Postsecondary	He, Lo, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Webmasters Association <i>www.aawebmasters.com</i> 	<ul style="list-style-type: none"> ASPRS: The Imaging & Geospatial Information Society <i>www.asprs.org</i>
<ul style="list-style-type: none"> Association for Computing Machinery <i>www.acm.org</i> 	<ul style="list-style-type: none"> Association of Information Technology Professionals <i>www.aitp.org</i>
<ul style="list-style-type: none"> CompTIA: Information Technology (IT) Industry & Association <i>www.comptia.org</i> 	<ul style="list-style-type: none"> Computing Research Association <i>http://cra.org</i>
<ul style="list-style-type: none"> Entertainment Software Association <i>www.theesa.com</i> 	<ul style="list-style-type: none"> IEEE Computer Society <i>www.computer.org</i>
<ul style="list-style-type: none"> Institute for Certification of Computing Professionals <i>www.iccp.org</i> 	<ul style="list-style-type: none"> International Association of Information Technology Asset Managers <i>http://iaitam.org/</i>
<ul style="list-style-type: none"> Internet Society <i>www.internetsociety.org/</i> 	<ul style="list-style-type: none"> Network Professional Association <i>www.npanet.org</i>
<ul style="list-style-type: none"> Telecommunications Industry Association <i>www.tiaonline.org</i> 	

Notes

Communications & Writing

Occupations in **Communications & Writing** involve writing for many different contexts, including materials for editorial, informative, dramatic, technical, or creative purposes. Writing and communication is part of virtually every field and can involve reporting, editing, promoting, and interpreting ideas and facts in written form. For example, many careers in journalism, business, research, social service, and education require reports and written communications. Look for writing opportunities that involve your other interests. Many jobs require post-secondary education in communications, English, journalism, or a specific subject. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Author-Journalism	Mathematics
Technical Writing	Skilled Trades
Performing Arts	Engineering
Independence	Job Security
Social Science	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-5111.00	Prepress Technician & Worker	Pr, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2032.00	Public Relations	En, As, Ex
11-2033.00	Fundraising Manager	En, As, Ex
27-3011.00	Radio & Television Announcer	Ex, En, As
27-3023.00	Broadcast News Analyst	Ex, Inf, He
27-3031.00	Public Relations Specialist	En, Ex, He
27-3041.00	Editor	Ex, En, Co
27-3042.00	Technical Writer	Inf, Ex, Inq
27-3043.00	Copy Writer	En, Ex, Inf
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq
27-3091.00	Interpreter & Translator	Inf, Ex, He
43-9081.00	Proofreader & Copy Marker	Co, St, Inf

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1122.00	Communications Teacher, Postsecondary	He, Inf, Ex
25-1123.00	English Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1124.00	Foreign Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1126.00	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Society of Journalists & Authors www.asja.org 	<ul style="list-style-type: none"> American Society of News Editors http://www.newsleaders.org/
<ul style="list-style-type: none"> American Translators Association www.atanet.org 	<ul style="list-style-type: none"> Dramatists Guild of America www.dramatistsguild.com
<ul style="list-style-type: none"> National Association of Broadcasters www.nab.org 	<ul style="list-style-type: none"> National Press Club www.press.org
<ul style="list-style-type: none"> National Writers Association www.nationalwriters.com 	<ul style="list-style-type: none"> Poets & Writers www.pw.org
<ul style="list-style-type: none"> Public Relations Society of America www.prsa.org 	<ul style="list-style-type: none"> Society for Technical Communication www.stc.org
<ul style="list-style-type: none"> Society of Children's Book Writers & Illustrators www.scbwi.org 	<ul style="list-style-type: none"> Society of Professional Journalists www.spj.org

Notes

Financial & Business Services

Occupations in **Financial & Business Services** involve maintaining, analyzing, and interpreting financial and business records, and working with institutions and the public regarding banking and financial planning. People working in this area may provide various advisory services, draft statements, keep record of billing collection and status of accounts, examine budget estimates, and prepare taxes. Many occupations in this group require post-secondary education in subjects such as accounting, commerce, economics, or business administration, although some provide training on the job. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Office Work	Medical Service
Finance	Life Science
Business	Creative Arts
Supervising Others	Nature-Agriculture
Law	Social Science
	Adventure

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
43-3011.00	Bill & Account Collector	Co, St, En
43-3021.00	Billing & Posting Clerk	Co, En, He
43-3021.00	Statement Clerk	Co, En, He
43-3021.00	Billing, Cost, & Rate Clerk	Co, St, En
43-3041.00	Gaming Cage Worker	St, En, Pr
43-3051.00	Payroll & Timekeeping Clerk	Co, St, En
43-3071.00	Teller	Co, St, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1032.00	Insurance Appraiser, Auto Damage	Co, Pr, En
13-2072.00	Loan Officer	Co, En, He
13-2081.00	Tax Examiner & Collector, & Revenue Agent	Co, St, En
13-2082.00	Tax Preparer	Co, St, En
43-3031.00	Bookkeeping, Accounting, & Auditing Clerk	Co, St, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
43-4011.00	Brokerage Clerk	Co, St, En
43-9041.00	Insurance Claims and Policy Processing Clerk	Co, St, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3031.00	Financial Manager, Branch or Department	En, As, Co
13-1023.00	Purchasing Agent	Co, En, As
13-1031.00	Claims Examiner, Property & Casualty Insurance	Co, St, En
13-1051.00	Cost Estimator	Co, St, En
13-1081.02	Logistics Analyst	Co, En, Lo
13-2011.00	Accountant and Auditors	Co, St, En
13-2021.02	Appraiser and Assessors of Real Estate	En, Co, Pr
13-2031.00	Budget Analyst	Co, En, Lo
13-2041.00	Credit Analyst	Co, St, En
13-2051.00	Financial and Investment Analyst	Co, Lo, En
13-2052.00	Personal Financial Advisor	En, Co, He
13-2053.00	Insurance Underwriter	Co, En, Lo
13-2054.00	Financial Risk Specialists	Co, En, Lo
13-2061.00	Financial Examiner	En, Co, St
13-2071.00	Credit Counselor	En, He, Co
13-2072.00	Loan Officer	En, He, Co
13-2099.01	Financial Quantitative Analyst	Lo, Inq, Co
13-2099.04	Fraud Examiner, Investigator & Analyst	En, Lo, Co
41-3031.00	Securities, Commodities, and Financial Services Sales Agents	En, As, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
11-3031.01	Treasurer & Controller	Co, St, En
11-3031.03	Investment Fund Manager	En, As, Co
13-1111.00	Management Analyst	Lo, En, Co

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • American Accounting Association https://aaahq.org 	<ul style="list-style-type: none"> • American Bankers Association www.aba.com
<ul style="list-style-type: none"> • American Finance Association https://.afajof.org 	<ul style="list-style-type: none"> • American Insurance Association www.apci.org/
<ul style="list-style-type: none"> • American Payroll Association https://payroll.org/ 	<ul style="list-style-type: none"> • Association for Financial Professionals www.afponline.org
<ul style="list-style-type: none"> • Association of Certified Fraud Examiners www.acfe.com 	<ul style="list-style-type: none"> • Association of Corporate Treasurers www.treasurers.org
<ul style="list-style-type: none"> • Financial Executives International www.financialexecutives.org 	<ul style="list-style-type: none"> • Financial Management Association International www.fma.org
<ul style="list-style-type: none"> • Institute of Internal Auditors North America www.theiia.org/ 	<ul style="list-style-type: none"> • Mortgage Bankers Association www.mba.org/
<ul style="list-style-type: none"> • National Association of Credit Management https://nacm.org 	<ul style="list-style-type: none"> • National Association of Personal Financial Advisors www.napfa.org
<ul style="list-style-type: none"> • Securities Industry & Financial Markets Association www.sifma.org 	

Notes

Mathematics

Occupations in **Mathematics** involve working with numbers, formulas, research, and statistics. Applied work might combine with other fields such as the physical, life, or social sciences, engineering, computer programming, economics, financial services, and education. Tasks may include data analysis for research, determining statistical probability of risk, technical problem solving, and decision-making based on calculations. Jobs in this area require a high level of interest and ability in mathematics. Consider combining your interest in mathematics with your other career interests. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Mathematics	Social Service
Physical Science	Mediation & Persuasion
Engineering	Business
Endurance	Sales
Life Science	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-9162.00	Computer Numerically Controlled Machine Tool Programmer, Metal & Plastic	Co, Lo, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3021.00	Computer & Information Systems Manager	En, Co, Lo
13-1081.02	Logistics Analyst	Co, En, Lo
13-2011.00	Accountants and Auditors	Co, St, En
15-1252.00	Software Developers	Lo, Pr, Co
15-2011.00	Actuary	Co, Lo, En
15-2051.01	Business Intelligence Analyst	Inq, En, Co
15-2051.02	Clinical Data Manager	Co, Lo, Inq
15-2099.00	Mathematical Science Occupations, All Other	Lo, Pr, Co
43-9111.00	Statistical Assistant	Co, St, Lo

Graduate Degree		
O*NET Code	Job Title	WP Code
15-1221.00	Computer & Information Research Scientist	Lo, Pr, Co
15-2021.00	Mathematician	Lo, Inq, Co
15-2031.00	Operations Research Analyst	Lo, Co, En
15-2041.00	Statistician	Co, Lo, Inq
15-2041.01	Biostatistician	Lo, Inq, Co
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1022.00	Mathematical Science Teacher, Postsecondary	He, Lo, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Academy of Actuaries www.actuary.org 	<ul style="list-style-type: none"> American Economic Association www.aeaweb.org/
<ul style="list-style-type: none"> American Mathematical Society www.ams.org/home/page 	<ul style="list-style-type: none"> American Statistical Association www.amstat.org
<ul style="list-style-type: none"> Association for Computing Machinery www.acm.org 	<ul style="list-style-type: none"> IEEE Computer Society www.computer.org
<ul style="list-style-type: none"> Mathematical Association of America https://maa.org 	<ul style="list-style-type: none"> Society for Industrial & Applied Mathematics www.siam.org
<ul style="list-style-type: none"> Society of Actuaries www.soa.org 	

Notes

Law & Government

Occupations in **Law & Government** involve legal and government services. Jobs and responsibilities might include legal representation of individuals, organizations, or government, preparation of legal documents, providing legal advice services, conducting research, developing laws, policies, and procedures, and ensuring compliance with regulations. Many jobs in this group require a university degree or specialized college diploma in legal studies. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Law	Creative Arts
Mediation & Persuasion	Skilled Trades
Finance	Family Activity
Technical Writing	
Supervising Others	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
33-3011.00	Bailiff	Pr, St, As
43-4031.00	Court, Municipal, and License Clerks	Co, En, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1041.00	Compliance Officers	Co, St, En
13-1041.04	Government Property Inspector & Investigator	Co, En, Pr
23-2011.00	Paralegal & Legal Assistant	Co, Inq, En
23-2093.00	Title Examiner, Abstractor, & Searcher	Co, En, Pr
27-3092.00	Court Reporters and Simultaneous Captioners	Co, St, En
43-6012.00	Legal Secretary	Co, St, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-1031.00	Legislator	En, As, He
11-9199.01	Regulatory Affairs Manager	En, As, Co
11-9199.02	Compliance Manager	Co, En, Pr
11-9199.08	Loss Prevention Manager	En, Co, St
13-1031.00	Claims Examiner, Property & Casualty Insurance	Co, St, En
13-1041.01	Environmental Compliance Inspector	Co, Inq, Pr
13-1041.03	Equal Opportunity Representative & Officer	He, En, Co
13-1041.07	Regulatory Affairs Specialist	Co, En, As
19-4092.00	Forensic Science Technician	Lo, Inq, Pr
21-1092.00	Probation Officer & Correctional Treatment Specialist	He, En, As

Graduate Degree		
O*NET Code	Job Title	WP Code
19-2041.01	Climate Change Analyst	Inq, En
19-3094.00	Political Scientist	Inq, Inf, He
23-1011.00	Lawyer	En, As, Inq
23-1012.00	Judicial Law Clerk	Co, En, Inq
23-1021.00	Administrative Law Judge, Adjudicator, & Hearing Officer	En, Inq, He
23-1022.00	Arbitrator, Mediator, & Conciliator	He, En, As
23-1023.00	Judge, Magistrate Judge, & Magistrate	En, As, He
25-1065.00	Political Science Teacher, Postsecondary	He, En, Inf
25-1111.00	Criminal Justice & Law Enforcement Teacher, Postsecondary	He, Inq
25-1112.00	Law Teacher, Postsecondary	He, Inq, En

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Alliance of Paralegals, Inc. https://aapipara.org 	<ul style="list-style-type: none"> American Arbitration Association www.adr.org
<ul style="list-style-type: none"> American Association for Justice www.justice.org 	<ul style="list-style-type: none"> American Association of Political Consultants https://theaapc.org/
<ul style="list-style-type: none"> American Bar Association www.americanbar.org 	<ul style="list-style-type: none"> American Judges Association www.amjudges.org/



Professional Organizations	
<ul style="list-style-type: none">• American Judicature Society https://americanjudicaturesociety.org/	<ul style="list-style-type: none">• American Political Science Association https://apsanet.org/
<ul style="list-style-type: none">• American Probation & Parole Association www.appa-net.org/eweb/	<ul style="list-style-type: none">• American Society for Public Administration www.aspanet.org/
<ul style="list-style-type: none">• American Society of Criminology www.asc41.com	<ul style="list-style-type: none">• NALS The Association for Legal Professionals www.nals.org
<ul style="list-style-type: none">• National Association of Legal Assistants www.nala.org	<ul style="list-style-type: none">• National Court Reporters Association www.ncra.org
<ul style="list-style-type: none">• National District Attorneys Association www.ndaa.org	<ul style="list-style-type: none">• National Lawyers Association www.nla.org

Notes

Health Services

Occupations in **Health Services** cover a wide range of jobs that provide a variety of healthcare services. Job responsibilities may include assessing patients, providing special therapies, preparing medications, giving x-rays, conducting laboratory tests, operating medical tools and equipment, and using specialized knowledge and training to assist healthcare providers with specific medical treatments. Most of these jobs require specialized training and education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Medical Service

Life Science

Nature-Agriculture

Family Activity

Low Basic Interest Scales

Author-Journalism

Law

Interpersonal Confidence

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
29-2051.00	Dietetic Technician	He, Inq, Pr
31-1121.00	Home Health Aide	He, Pr
31-1122.00	Personal Care Aide	He, Pr, St
31-1131.00	Nursing Assistant	He, Co, Pr
31-1132.00	Orderly	Co, Pr, He
31-1133.00	Psychiatric Aide	He, Pr, Co
31-2022.00	Physical Therapist Aide	He, Pr
31-9093.00	Medical Equipment Preparer	Pr, Co, St
31-9095.00	Pharmacy Aide	Co, St, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
29-1124.00	Radiation Therapist	He, Pr, Co
29-1126.00	Respiratory Therapist	He, Inq, Pr
29-1141.00	Registered Nurse	He, Inq, Pr
29-1141.03	Critical Care Nurse	He, Inq, Pr
29-1292.00	Dental Hygienist	He, Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
29-2012.00	Medical & Clinical Laboratory Technician	Pr, Inq, Co
29-2031.00	Cardiovascular Technologist & Technician	Pr, Inq, He
29-2032.00	Diagnostic Medical Sonographer	Inq, He, Pr
29-2033.00	Nuclear Medicine Technologist	Inq, Pr, He
29-2034.00	Radiologic Technologist and Technicians	Pr, He
29-2035.00	Magnetic Resonance Imaging Technologist	Pr, Co, He
29-2042.00	Emergency Medical Technician & Paramedic	He, Inq, Pr
29-2052.00	Pharmacy Technician	Co, St, Pr
29-2053.00	Psychiatric Technician	He, En, Pr
29-2055.00	Surgical Technologist	Pr, He, Co
29-2056.00	Veterinary Technologist & Technician	Pr, Inq, Lo
29-2057.00	Ophthalmic Medical Technician	Co, He, Pr
29-2061.00	Licensed Practical & Licensed Vocational Nurse	He, Pr
29-2081.00	Optician, Dispensing	En,Co,Pr
29-2092.00	Hearing Aid Specialist	He, Inq, Pr
29-2099.00	Health Technologists and Technicians, All Other	He, Pr, Inq
29-2099.01	Neurodiagnostic Technologist	Pr, Inq, Lo
29-2099.05	Ophthalmic Medical Technologist	Co, Pr, Inq
29-9021.00	Health Information Technologists and Medical Registrars	Co, St, En
31-2011.00	Occupational Therapy Assistant	He, Pr
31-2012.00	Occupational Therapy Aide	He, Pr
31-2021.00	Physical Therapist Assistant	He, Pr, Inq
31-9011.00	Massage Therapist	He, Pr
31-9091.00	Dental Assistant	Co, Pr, He
31-9092.00	Medical Assistant	He, Co, Pr
31-9094.00	Medical Transcriptionist	Co, St, Pr
31-9096.00	Veterinary Assistant & Laboratory Animal Caretaker	Pr, He, Inq
31-9097.00	Phlebotomist	Co, Pr, Inq
31-9099.01	Speech-Language Pathology Assistant	He, Co, St
31-9099.02	Endoscopy Technician	Pr, Inq, Co
43-6013.00	Medical Secretary	Co, St, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
15-1121.01	Informatics Nurse Specialist	He, Inq, Lo
21-1091.00	Health Educator	He, En
21-1094.00	Community Health Worker	He, Inq, En
29-1125.00	Recreational Therapist	He, Ex
29-1129.02	Music Therapist	He, Ex, Inq
29-2011.00	Medical & Clinical Laboratory Technologist	Inq, Pr, Co
29-2011.01	Cytogenetic Technologist	Inq, Pr, Co
29-2099.08	Patient Representative	He, En, As
29-9099.01	Midwife	He, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9111.00	Medical & Health Service Manager	En, Co, He
25-1071.00	Health Specialities Teacher, Postsecondary	He, Inq, Lo
25-1072.00	Nursing Instructor & Teacher, Postsecondary	He, Inq, Lo
29-1011.00	Chiropractor	He, Inq, Pr
29-1021.00	Dentist, General	Inq, Pr, He
29-1022.00	Oral & Maxillofacial Surgeon	Pr, He, Inq
29-1023.00	Orthodontist	Inq, Pr, He
29-1024.00	Prosthodontist	Inq, Pr
29-1031.00	Dietitian & Nutritionist	Inq, Lo, He
29-1041.00	Optometrist	Inq, He, Pr
29-1051.00	Pharmacist	Inq, Co, He
29-1071.00	Physician Assistant	He, Inq, Pr
29-1122.00	Occupational Therapist	He, Inq, Lo
29-1123.00	Physical Therapist	He, Inq, Pr
29-1127.00	Speech-Language Pathologist	He, Inq, Ex
29-1128.00	Exercise Physiologist	He, Inq, Pr
29-1129.01	Art Therapist	He, Ex, Inq
29-1131.00	Veterinarian	Inq, Lo, Pr
29-1141.04	Clinical Nurse Specialist	En, He, St
29-1151.00	Nurse Anesthetist	Inq, Pr, He
29-1161.00	Nurse Midwife	He, Inq, Lo
29-1171.00	Nurse Practitioner	He, Inq, Pr
29-1181.00	Audiologist	Inq, Lo, He
29-1291.00	Acupuncturist	He, Pr, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
29-1299.02	Orthoptist	Inq, He, Pr
29-2091.00	Orthotist & Prosthetist	He, Pr, Inq
29-9092.00	Genetic Counselor	He, Inq, Lo

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • Academy of Nutrition & Dietetics www.eatright.org/ 	<ul style="list-style-type: none"> • American Association for Respiratory Care www.aarc.org/
<ul style="list-style-type: none"> • American Association of Medical Assistants www.aama-ntl.org 	<ul style="list-style-type: none"> • American Association of Pharmacy Technicians www.pharmacytechnician.com
<ul style="list-style-type: none"> • American Chiropractic Association www.acatoday.org/ 	<ul style="list-style-type: none"> • American Dental Association www.ada.org/
<ul style="list-style-type: none"> • American Medical Technologists www.americanmedtech.org/ 	<ul style="list-style-type: none"> • American Nurses Association www.nursingworld.org/
<ul style="list-style-type: none"> • American Occupational Therapy Association www.aota.org/ 	<ul style="list-style-type: none"> • American Optometric Association www.aoa.org/
<ul style="list-style-type: none"> • American Pharmacists Association www.pharmacist.com/ 	<ul style="list-style-type: none"> • American Physical Therapy Association www.apta.org/
<ul style="list-style-type: none"> • American Speech-Language-Hearing Association www.asha.org/ 	<ul style="list-style-type: none"> • American Veterinary Medical Association www.avma.org/
<ul style="list-style-type: none"> • National Association of Emergency Medical Technicians www.naemt.org/ 	<ul style="list-style-type: none"> • National Association of Health Care Assistants www.nahcacna.org/
<ul style="list-style-type: none"> • Society of Diagnostic Medical Sonography www.sdms.org/ 	

Notes

Career & Guidance Counseling

Occupations in **Career & Guidance Counseling** involve providing guidance to people as they make life transitions. Responsibilities may include sharing important career or education information and resources with clients to help them make personal decisions and future career plans. Some jobs may also involve helping others understand and overcome personal problems. Many occupations in this group require post-secondary training in psychology, sociology, social work, education, or the social services. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Teaching	Adventure
Mediation & Persuasion	Creative Arts
Social Service	Skilled Trades
Supervising Others	Physical Science
Consulting	Engineering

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-3021.00	Self-Enrichment Education Teacher	He, Ex, En
43-4061.00	Eligibility Interviewer, Government Programs	He, Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1071.00	Human Resources Specialist	En, He, Co
13-1151.00	Training & Development Specialist	He, Ex, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-3033.00	Counseling Psychologist	He, Inq, Ex
19-3034.00	School Psychologist	Inq, Lo, He
21-1012.00	Educational, Guidance, School, & Vocational Counselor	He
21-2011.00	Clergy	He, En, Ex



Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none">• American Counseling Association <i>www.counseling.org/</i>	<ul style="list-style-type: none">• American Psychological Association <i>www.apa.org/</i>
<ul style="list-style-type: none">• American School Counselor Association <i>www.schoolcounselor.org/</i>	<ul style="list-style-type: none">• Association for Talent Development <i>www.td.org/</i>
<ul style="list-style-type: none">• Career Development Network <i>www.careernetwork.org/</i>	<ul style="list-style-type: none">• National Career Development Association <i>https://ncda.org/aws/NCDA/pt/sp/home_page</i>
<ul style="list-style-type: none">• National Employment Counseling Association <i>www.employmentcounseling.org</i>	

Notes

Engineering & Technical Support

Occupations in **Engineering & Technical Support** focus on the application of the physical laws and principles of engineering to a variety of products, materials, structures, systems, and processes. Activities may involve designing roads and highway systems, researching solutions to environmental problems, developing computer hardware, consulting on health and safety practices, or supervising the manufacturing of electrical equipment. People working in this area generally have a high interest and ability in math and science. Occupations require a university degree or college diploma in a particular area of engineering, such as civil, electrical, mechanical, industrial, or environmental. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Engineering
Mathematics
Skilled Trades
Physical Science
Authoritarian Leadership

Low Basic Interest Scales

Social Service
Author-Journalism
Elementary Education

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
17-3029.01	Non-Destructive Testing Specialist	Pr, Lo, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3051.06	Hydroelectric Production Manager	En, Co
17-3012.00	Electrical and Electronics Drafters	St, Pr, Lo
17-3013.00	Mechanical Drafter	Pr, Co, Lo
17-3022.00	Civil Engineering Technician	Pr, Co, Lo
17-3023.00	Electrical and Electronic Engineering Technologists and Technicians	Pr, Lo, Inq
17-3024.00	Electro-Mechanical Technician	Pr, Lo, Co
17-3024.01	Robotics Technician	Pr, Lo, Inq
17-3026.00	Industrial Engineering Technologists and Technicians	Lo, Pr, Co
17-3026.01	Nanotechnology Engineering Technologist and Technicians	Pr, Inq, Co
17-3027.00	Mechanical Engineering Technologists and Technicians	Pr, Lo, Co
17-3027.01	Automotive Engineering Technician	Pr, Lo, Inq

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
17-3029.08	Photonics Technician	Pr, Lo, Co
17-3031.00	Surveying and Mapping Technicians	Pr, Co, St
19-4099.01	Quality Control Analyst	Co, Lo, Pr
27-4014.00	Sound Engineering Technician	Pr, Ex
51-8013.04	Hydroelectric Plant Technician	Pr, Co, Inf
53-6041.00	Traffic Technician	Pr, Lo, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9199.10	Wind Energy Project Manager	En, Co, Inq
13-1081.01	Logistics Engineer	Lo, Co, Pr
15-1241.00	Computer Network Architect	Inq, Co, En
15-1252.00	Software Developer	Lo, Pr, Co
15-1253.00	Software Quality Assurance Engineer & Tester	Lo, Co, Pr
15-1299.08	Computer Systems Engineer/Architect	Lo, Inq, Pr
17-1011.00	Architect	Ex, Lo, Inq
17-1022.00	Surveyor	Pr, Co, Lo
17-1022.01	Geodetic Surveyor	Inq, Co, Pr
17-2011.00	Aerospace Engineer	Lo, Inq, Pr
17-2021.00	Agricultural Engineer	Lo, Pr, En
17-2031.00	Bioengineers and Biomedical Engineers	Lo, Inq, Pr
17-2041.00	Chemical Engineer	Lo, Inq, Pr
17-2051.00	Civil Engineer	Pr, Lo, Co
17-2051.01	Transportation Engineer	Pr, Lo, Inq
17-2051.02	Water/Wastewater Engineer	Inq, Pr, En
17-2061.00	Computer Hardware Engineer	Lo, Pr, Co
17-2071.00	Electrical Engineer	Lo, Pr
17-2072.00	Electronics Engineer	Lo, Pr
17-2072.01	Radio Frequency Identification Device Specialist	Pr, Lo, Co
17-2111.00	Health and Safety Engineers, Except Mining Safety Engineer	Lo, Inq, Co
17-2111.02	Fire-Prevention & Protection Engineer	Lo, Inq, Pr
17-2112.00	Industrial Engineer	Lo, Co, En
17-2112.02	Validation Engineer	Lo, Pr, Co
17-2112.03	Manufacturing Engineer	Pr, Lo, Inq
17-2121.00	Marine Engineers and Naval Architects	Lo, Inq, Pr
17-2131.00	Materials Engineer	Lo, Pr, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-2141.00	Mechanical Engineer	Lo, Pr, Co
17-2141.02	Automotive Engineer	Pr, Inq, Lo
17-2151.00	Mining & Geological Engineer, Including Mining Safety Engineer	Lo, Pr, En
17-2161.00	Nuclear Engineer	Lo, Pr, Co
17-2171.00	Petroleum Engineer	Lo, Pr, Co
17-2199.03	Energy Engineer, Except Wind and Solar	Lo, Inq, Pr
17-2112.03	Manufacturing Engineer	Pr, Lo, Inq
17-2199.05	Mechatronics Engineer	Lo, Pr, Co
17-2199.07	Photonics Engineer	Lo, Pr, Co
17-2199.08	Robotics Engineer	Lo, Pr, Co
17-2199.10	Wind Energy Engineer	Pr, Inq, En
17-2199.11	Solar Energy Systems Engineer	Pr, Inq
17-3011.00	Architectural and Civil Drafters	Ex, Pr, Lo
17-3021.00	Aerospace Engineering & Operations Technician	Pr, Lo, Co
17-3023.00	Electrical and Electronic Engineering Technologists and Technicians	Pr, Lo, Co
17-3024.01	Electromechanical Engineering Technologist	Pr, Lo, Co
17-3025.00	Environmental Engineering Technician	Pr, Lo, Co
17-3026.00	Industrial Engineering Technologists and Technicians	Lo, Pr, Co
19-3099.01	Transportation Planner	Lo, Co, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9041.00	Architectural & Engineering Manager	En, Pr, Lo
17-2081.00	Environmental Engineer	Lo, Pr, Co
17-2112.01	Human Factors Engineer & Ergonomist	Lo, Inq, Pr
17-2141.01	Fuel Cell Engineer	Pr, Inq, Lo
17-2199.06	Microsystems Engineer	Lo, Pr, Co
17-2199.09	Nanosystems Engineer	Inq, Pr, En
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
25-1032.00	Engineering Teacher, Postsecondary	He, Inq, Pr

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Academy of Environmental Engineers & Scientists www.aaees.org/ 	<ul style="list-style-type: none"> American Institute of Aeronautics & Astronautics www.aiaa.org/
<ul style="list-style-type: none"> American Institute of Architects www.aia.org/ 	<ul style="list-style-type: none"> American Institute of Chemical Engineers www.aiche.org/
<ul style="list-style-type: none"> American Nuclear Society www.ans.org/ 	<ul style="list-style-type: none"> American Society of Agricultural & Biological Engineers www.asabe.org/
<ul style="list-style-type: none"> American Society of Certified Engineering Technicians https://ascet.org/ 	<ul style="list-style-type: none"> American Society of Civil Engineers www.asce.org/
<ul style="list-style-type: none"> American Society of Mechanical Engineers www.asme.org/ 	<ul style="list-style-type: none"> American Society of Safety Engineers www.assp.org/
<ul style="list-style-type: none"> Biomedical Engineering Society www.bmes.org/ 	<ul style="list-style-type: none"> Institute of Electrical & Electronic Engineers - USA www.ieeeusa.org/
<ul style="list-style-type: none"> Institute of Industrial & Systems Engineers www.iise.org/Home/ 	<ul style="list-style-type: none"> National Society of Professional Engineers www.nspe.org//
<ul style="list-style-type: none"> Society for Mining, Metallurgy & Exploration www.smenet.org 	<ul style="list-style-type: none"> Society of Petroleum Engineers www.spe.org/en/
<ul style="list-style-type: none"> The Minerals, Metals & Materials Society www.tms.org/ 	

Notes

Social Science & Research

Occupations in **Social Science & Research** involve studying human society and social behavior through subjects such as psychology, sociology, anthropology, economics, political science, history, and geography. Jobs may involve collecting and analyzing data, searching archives, compiling information, researching, writing reports, studying trends, or examining artifacts. Social scientists work in a variety of settings, such as universities, government, and businesses and often conduct research in their chosen field. Most occupations in this group require a university or graduate degree. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Social Science	Skilled Trades
Author-Journalism	Family Activity
Technical Writing	Personal Service
Teaching	
Independence	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1161.00	Market Research Analyst & Marketing Specialist	Lo, En, Co
17-1021.00	Cartographer & Photogrammetrist	Pr, Lo, Co
19-3051.00	Urban and Regional Planners	Co, St, Pr
19-3099.01	Transportation Planner	Lo, Co, Pr
19-4061.00	Social Science Research Assistant	Co, Inq, Lo
19-4099.03	Remote Sensing Technician	Pr, Lo, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
19-3011.00	Economist	Lo, Co, En
19-3011.01	Environmental Economist	Inq, En, Co
19-3022.00	Survey Researcher	Lo, Inq, Co
19-3032.00	Industrial-Organizational Psychologist	Inq, En, Ex
19-3033.00	Clinical Psychologist	Inq, He, Ex

Graduate Degree		
O*NET Code	Job Title	WP Code
19-3034.00	School Psychologist	Inq, Lo, He
19-3041.00	Sociologist	Inq, Inf, He
19-3051.00	Urban & Regional Planner	Inq, En, Ex
19-3091.00	Anthropologists and Archeologists	Inq, Inf, Ex
19-3092.00	Geographer	Inq, Pr, Inf
19-3093.00	Historian	Inf, Inq, Lo
19-3094.00	Political Scientist	Inq, Inf, He
25-1061.00	Anthropology & Archeology Teacher, Postsecondary	He, Inq, Lo
25-1062.00	Area, Ethnic, & Cultural Studies Teacher, Postsecondary	He, Inq, Inf
25-1067.00	Sociology Teacher, Postsecondary	He, Inq, Ex
25-1126.00	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq
25-4011.00	Archivist	Co, Inq, Lo
25-4022.00	Librarians and Media Collections Specialists	Co, He, En

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Anthropological Association https://americananthro.org/ 	<ul style="list-style-type: none"> American Economic Association www.aeaweb.org/
<ul style="list-style-type: none"> American Educational Research Association www.aera.net/ 	<ul style="list-style-type: none"> American Historical Association www.historians.org/
<ul style="list-style-type: none"> American Planning Association www.planning.org/ 	<ul style="list-style-type: none"> American Political Science Association www.apsanet.org/
<ul style="list-style-type: none"> American Psychological Association www.apa.org/ 	<ul style="list-style-type: none"> American Sociological Association www.asanet.org/
<ul style="list-style-type: none"> Archaeological Institute of America www.archaeological.org/ 	<ul style="list-style-type: none"> Association of American Geographers www.aag.org/
<ul style="list-style-type: none"> Cartography & Geographic Information Society https://cartogis.org/ 	<ul style="list-style-type: none"> Insights Association www.insightsassociation.org/
<ul style="list-style-type: none"> Society of American Archivists www2.archivists.org/ 	

EXPLORE YOUR FUTURE



Notes

Human Resources

Occupations in **Human Resources** involve planning, directing, and coordinating employee activities and resources. Tasks and responsibilities include recruiting, selecting, and training employees, maintaining employee information on compensation, benefits, and performance, developing workplace policies and procedures, and mediating disputes between employees and employers. Many jobs require post-secondary education or specialized training or certification through professional development courses. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Consulting	Life Science
Business	Mathematics
Mediation & Persuasion	Physical Science
Finance	Nature-Agriculture
Law	Medical Service

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
43-4161.00	Human Resources Assistant	Co, En, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3111.00	Compensation & Benefits Manager	En, Co, He
11-3121.00	Human Resources Manager	En, He, Co
11-3131.00	Training & Development Manager	En, As, He
13-1041.03	Equal Opportunity Representative & Officer	He, En, Co
13-1071.00	Human Resources Specialist	En, Co, He
13-1075.00	Labor Relations Specialist	En, Co, He
13-1121.00	Meeting, Convention, & Event Planner	En, Co, He
13-1141.00	Compensation, Benefits, & Job Analysis Specialist	Co, St, En
13-1151.00	Training & Development Specialist	He, Ex, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
13-1111.00	Management Analyst	Lo, En, Co
19-3032.00	Industrial-Organizational Psychologist	Inq, En, Ex
23-1022.00	Arbitrator, Mediator, & Conciliator	He, En, As
25-1011.00	Business Teacher, Postsecondary	He, En, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • Association for Talent Development www.td.org/ 	<ul style="list-style-type: none"> • Association of Executive Search & Leadership Consultants www.aesc.org/
<ul style="list-style-type: none"> • Career Development Network www.careernetwork.org/ 	<ul style="list-style-type: none"> • Institute of Management Consultants USA https://imcusa.org/
<ul style="list-style-type: none"> • International Coach Federation https://coachfederation.org/ 	<ul style="list-style-type: none"> • International Foundation of Employee Benefit Plans www.ifebp.org/
<ul style="list-style-type: none"> • International Public Management Association for Human Resources https://pshra.org/ 	<ul style="list-style-type: none"> • Meeting Professionals International www.mpi.org/
<ul style="list-style-type: none"> • Society for Human Resource Management www.shrm.org/home 	<ul style="list-style-type: none"> • Society for Industrial & Organizational Psychology www.siop.org/
<ul style="list-style-type: none"> • World At Work https://worldatwork.org/ 	

Notes

Physical Science & Research

Occupations in **Physical Science & Research** involve research aimed at the discovery of scientific principles and their application to specific fields such as chemistry, physics, geology, astronomy, and environmental science. Jobs involve conducting lab experiments, analyzing data, designing research equipment, developing synthetic substances, and studying cause and effect relationships. Most jobs in this area require post-secondary education and a high interest and ability in mathematics and sciences. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Mathematics	Mediation & Persuasion
Physical Science	Business
Life Science	Sales
Endurance	
Engineering	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
49-9099.01	Geothermal Technician	Pr, Co
51-8013.00	Power Plant Operator	Pr, Co, Inf
51-8013.03	Biomass Plant Technician	Pr, Co, Inf
51-8091.00	Chemical Plant & System Operator	Pr, Co, St
51-8093.00	Petroleum Pump Systems Operator, Refinery Operator, & Gauger	Pr, Co, St
51-8099.01	Biofuels Processing Technician	Pr, Co, Inf
51-9011.00	Chemical Equipment Operator & Tender	Pr, Co
51-9012.00	Separating, Filtering, Clarifying, Precipitating, & Still Machine Setter, Operator, & Tender	Pr, Co, St
51-9023.00	Mixing & Blending Machine Setter, Operator, & Tender	Pr, Co, St
51-9083.00	Ophthalmic Laboratory Technician	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
19-4031.00	Chemical Technician	Lo, Pr, Co
19-4051.00	Nuclear Technician	Pr, St, Lo
19-4051.02	Nuclear Monitoring Technician	Pr, St, Lo

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
19-4071.00	Forest & Conservation Technician	Pr, Inq, En
19-4099.01	Quality Control Analyst	Co, Lo, Pr
39-4011.00	Embalmer	Pr, Co, Inq
49-9081.00	Wind Turbine Service Technician	Pr, Co
51-8011.00	Nuclear Power Reactor Operator	Pr, St, Co
51-8021.00	Stationary Engineer & Boiler Operator	Pr, Lo, Co
51-8031.00	Water & Wastewater Treatment Plant & System Operator	Pr, Co, St
51-8092.00	Gas Plant Operator	Pr, Co, St
51-9071.06	Gem & Diamond Worker	Pr, Lo, Inq

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3051.00	Industrial Production Managers	Co, En, Pr
11-3051.01	Quality Control Systems Manager	En, Co, Pr
11-3051.03	Biofuels Production Manager	En, Co, Pr
11-3051.04	Biomass Power Plant Manager	En, Co, Pr
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
17-2041.00	Chemical Engineer	Lo, Inq, Pr
19-1031.00	Conservation Scientists	Inq, Pr, En
19-2021.00	Atmospheric & Space Scientist	Lo, Inq, Pr
19-2031.00	Chemist	Lo, Inq, Pr
19-2041.00	Environmental Scientist & Specialist, Including Health	Lo, Inq, Pr
19-2042.00	Geoscientist	Lo, Inq, Pr
19-2043.00	Hydrologist	Lo, Inq, Pr
19-4012.01	Precision Agriculture Technician	Pr, Lo, Co
19-4042.00	Environmental Science & Protection Technician, Including Health	Inq, Pr, St
19-4043.00	Geological Technicians, Except Hydrologic Technicians	St, Pr, Lo
19-4092.00	Forensic Science Technician	Lo, Inq, Pr
19-4099.03	Remote Sensing Technician	Pr, Lo, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-1013.00	Soil & Plant Scientist	Inq, Lo, Pr
19-2011.00	Astronomer	Lo, Ex, Pr
19-2012.00	Physicist	Lo, Inq, Pr
19-2032.00	Materials Scientist	Lo, Inq, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
19-2041.01	Climate Change Analyst	Inq, En
19-2041.02	Environmental Restoration Planner	Inq, Pr, En
19-2099.01	Remote Sensing Scientist & Technologist	Pr, Lo, Inq
19-3092.00	Geographer	Inq, Pr, Inf
25-1051.00	Atmospheric, Earth, Marine, & Space Sciences Teacher, Postsecondary	He, Inq, Lo
25-1052.00	Chemistry Teacher, Postsecondary	He, Lo, Pr
25-1053.00	Environmental Science Teacher, Postsecondary	He, Inq, Ex
25-1054.00	Physics Teacher, Postsecondary	He, Lo, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Academy of Forensic Sciences www.aafs.org/ 	<ul style="list-style-type: none"> American Astronomical Society http://aas.org/
<ul style="list-style-type: none"> American Chemical Society www.acs.org/ 	<ul style="list-style-type: none"> American Geosciences Institute www.americangeosciences.org/
<ul style="list-style-type: none"> American Institute of Hydrology www.aihydrology.org/ 	<ul style="list-style-type: none"> American Institute of Physics https://www.aip.org/
<ul style="list-style-type: none"> American Meteorological Society www.ametsoc.org/index.cfm/ams/ 	<ul style="list-style-type: none"> American Nuclear Society www.ans.org/
<ul style="list-style-type: none"> ASPRS: The Imaging & Geospatial Information Society www.asprs.org/ 	<ul style="list-style-type: none"> Association of American Geographers www.aag.org/
<ul style="list-style-type: none"> Materials Research Society www.mrs.org/ 	<ul style="list-style-type: none"> National Association of Environmental Professionals www.naep.org/
<ul style="list-style-type: none"> Soil Science Society of America www.soils.org/ 	

Notes

Construction

Occupations in **Construction** involve making, building, assembling, and repairing products, buildings, roads, bridges, and machinery. Jobs may involve working with various materials, such as wood, stone, metal, and plastic, using equipment and tools like cement mixers and air hammers, or operating heavy machinery such as bulldozers. Many of these jobs require apprenticeships and on-the-job training. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Skilled Trades	Author-Journalism
Engineering	Teaching
Creative Arts	Technical Writing
Nature-Agriculture	
Family Activity	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
47-2161.00	Plasterer & Stucco Mason	Pr
47-3014.00	Helper--Painter, Paperhanger, Plasterer, & Stucco Mason	Pr, Co
47-4071.00	Septic Tank Servicer & Sewer Pipe Cleaner	Pr
47-5011.00	Derrick Operator, Oil & Gas	Pr, Co, Lo
47-5051.00	Rock Splitter, Quarry	Pr, Co, St
47-5071.00	Roustabout, Oil & Gas	Pr
51-7021.00	Furniture Finisher	Pr, Ex

High School Diploma		
O*NET Code	Job Title	WP Code
47-2021.00	Brickmason & Blockmason	Pr, Co, Lo
47-2031.00	Carpenters	Pr, Co, Lo
47-2041.00	Carpet Installer	Pr, En
47-2042.00	Floor Layer	Pr, Co, St
47-2043.00	Floor Sander & Finisher	Pr
47-2044.00	Tile & Marble Setter	Pr, Co, Ex
47-2051.00	Cement Mason & Concrete Finisher	Pr, En

EXPLORE YOUR FUTURE



High School Diploma		
O*NET Code	Job Title	WP Code
47-2053.00	Terrazzo Worker & Finisher	Pr
47-2061.00	Construction Laborer	Pr, Co, St
47-2071.00	Paving, Surfacing, & Tamping Equipment Operator	Pr, Co, St
47-2072.00	Pile-Driver Operator	Pr, Co, Lo
47-2073.00	Operating Engineer & Other Construction Equipment Operator	Pr, Co, St
47-2081.00	Drywall & Ceiling Tile Installer	Pr, Co, St
47-2082.00	Taper	Pr
47-2121.00	Glazier	Pr, Co, St
47-2131.00	Insulation Worker, Floor, Ceiling, & Wall	Pr
47-2132.00	Insulation Worker, Mechanical	Pr, Co, Lo
47-2141.00	Painter, Construction & Maintenance	Pr, Co, St
47-2142.00	Paperhanger	Pr, Co, St
47-2151.00	Pipelayer	Pr
47-2171.00	Reinforcing Iron & Rebar Worker	Pr, Co, Lo
47-2181.00	Roofer	Pr, Co, St
47-2211.00	Sheet Metal Worker	Pr
47-2221.00	Structural Iron & Steel Worker	Pr, Lo, Co
47-2231.00	Solar Photovoltaic Installer	Pr, Co
47-3011.00	Helper--Brickmason, Blockmason, Stonemason, & Tile & Marble Setter	Pr
47-3012.00	Helper--Carpenter	Pr, Co
47-3013.00	Helper--Electrician	Pr, Co
47-3015.00	Helper--Pipelayer, Plumber, Pipefitter, & Steamfitter	Pr
47-3016.00	Helper--Roofer	Pr, Co
47-4031.00	Fence Erector	Pr, Co, St
47-4051.00	Highway Maintenance Worker	Pr, Co, St
47-4061.00	Rail-Track Laying & Maintenance Equipment Operator	Pr
47-4091.00	Segmental Paver	Pr, Co, St
47-4099.03	Weatherization Installer & Technician	Pr, Co
47-5012.00	Rotary Drill Operator, Oil & Gas	Pr, En, Co
47-5013.00	Service Unit Operator, Oil, Gas, & Mining	Pr, Co, Lo
47-5022.00	Excavating & Loading Machine & Dragline Operator	Pr
47-5023.00	Earth Driller, Except Oil and Gas	Pr, Lo, Co
47-5032.00	Explosives Worker, Ordnance Handling Expert, & Blaster	Pr, Lo, Co
47-5041.00	Continuous Mining Machine Operator	Pr, Co, Lo
47-5043.00	Roof Bolter, Mining	Pr, Co
47-5044.00	Loading Machine Operator, Underground Mining	Pr, Co
47-5049.00	Underground Mining Machine Operators, All Other	Pr

High School Diploma		
O*NET Code	Job Title	WP Code
47-5081.00	Helper--Extraction Worker	Pr, Co
49-9045.00	Refractory Materials Repairer	Pr, Co, Lo
49-9095.00	Manufactured Building & Mobile Home Installer	Pr, Co, St
49-9096.00	Rigger	Pr, Co, Lo
51-2021.00	Coil Winder, Taper, & Finisher	Pr, Co, Lo
51-2051.00	Fiberglass Laminator & Fabricator	Pr, Co, Lo
51-7011.00	Cabinetmaker & Bench Carpenter	Pr, Co, St
51-7041.00	Sawing Machine Setter, Operator, & Tender, Wood	Pr, Co, Lo
51-7042.00	Woodworking Machine Setter, Operator, & Tender, Except Sawing	Pr, Co, Lo
51-9031.00	Cutter & Trimmer, Hand	Pr, Co, St
51-9061.00	Inspector, Tester, Sorter, Sampler & Weigher	Co, St, Pr
51-9198.00	Helper--Production Worker	Pr, Co, St
53-4013.00	Rail Yard Engineer, Dinkey Operator, & Hostler	Pr, Co, Inf
53-7051.00	Industrial Truck & Tractor Operator	Pr, Co, St
53-7062.00	Laborer & Freight, Stock, & Material Mover, Hand	Pr
53-7121.00	Tank Car, Truck, & Ship Loader	Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
47-1011.00	First-Line Supervisor of Construction Trades & Extraction Worker	En, Pr, Co
47-1011.03	Solar Energy Installation Manager	En, Pr
47-2011.00	Boilermaker	Pr, Co, St
47-2022.00	Stonemason	Pr
47-2111.00	Electrician	Pr, Lo, Co
47-2152.00	Plumbers, Pipefitters, and Steamfitters	Pr, Co, St
47-2152.04	Solar Thermal Installer & Technician	Pr, Co
47-4011.00	Construction & Building Inspector	Pr, Co, Lo
47-4011.01	Energy Auditor	Co, St, En
47-4021.00	Elevator Installer & Repairer	Pr, Lo, Co
47-4041.00	Hazardous Materials Removal Worker	Pr, Co, St
49-9092.00	Commercial Diver	Pr
51-7031.00	Model Maker, Wood	Pr, Ex, Co
51-7032.00	Patternmaker, Wood	Pr, Lo, Ex
51-9071.00	Jewelers and Precious Stone and Metal Workers	Pr, Ex
53-7021.00	Crane & Tower Operator	Pr, Co, Lo

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9021.00	Construction Manager	En, Pr, Co
11-9199.10	Wind Energy Project Manager	En, Co, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • Associated Builders & Contractors www.abc.org/ 	<ul style="list-style-type: none"> • Associated General Contractors of America www.agc.org/
<ul style="list-style-type: none"> • Association of Construction Inspectors www.aci-assoc.org/ 	<ul style="list-style-type: none"> • Cabinet Makers Association www.cabinetmakers.org/
<ul style="list-style-type: none"> • Independent Electrical Contractors www.ieci.org/ 	<ul style="list-style-type: none"> • International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers www.ironworkers.org/s/
<ul style="list-style-type: none"> • National Association of Elevator Contractors www.naec.org/ 	<ul style="list-style-type: none"> • National Association of Home Builders www.nahb.org/
<ul style="list-style-type: none"> • National Insulation Association https://insulation.org/ 	<ul style="list-style-type: none"> • National Mining Association https://nma.org/
<ul style="list-style-type: none"> • National Roofing Contractors Association www.nrca.net/ 	<ul style="list-style-type: none"> • National Tile Contractors Association www.tile-assn.com/
<ul style="list-style-type: none"> • Operative Plasterers' & Cement Masons' International Association www.opcmia.org/ 	<ul style="list-style-type: none"> • Painting & Decorating Contractors of America www.pcapainted.org/
<ul style="list-style-type: none"> • Plumbing-Heating-Cooling Contractors Association www.phccweb.org/ 	<ul style="list-style-type: none"> • Sheet Metal & Air Conditioning Contractors' National Association www.smacna.org/
<ul style="list-style-type: none"> • The Flooring Contractors Association www.fcica.com/ 	<ul style="list-style-type: none"> • The Masonry Society https://masonrysociety.org/

Notes

Social Service & Mental Health

Occupations in **Social Service & Mental Health** provide individuals, families, organizations, and communities with psychological, emotional, physical, and social support. Responsibilities may include delivering counseling and helping those in need, holding workshops and information sessions to educate the public, writing reports, identifying and evaluating social and community-based program needs, and consulting with clients and patients on a wide range of social and personal situations to provide guidance on life problems and issues. Jobs in this group often require college or university education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Social Service	Adventure
Teaching	Personal Service
Social Science	Skilled Trades
Elementary Education	
Technical Writing	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
31-1121.00	Home Health Aide	He, Pr
31-1122.00	Personal Care Aide	He, Pr, St
31-1133.00	Psychiatric Aide	He, Pr, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9171.00	Funeral Home Manager	En, Co, He
29-2053.00	Psychiatric Technician	He, En, Pr
31-2011.00	Occupational Therapy Assistant	He, Pr
31-2012.00	Occupational Therapy Aide	He, Pr
31-9099.01	Speech-Language Pathology Assistant	He, Co, St
39-9041.00	Residential Advisor	He, En, Co
43-4061.00	Eligibility Interviewer, Government Programs	He, Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9151.00	Social & Community Service Manager	En, As, He
21-1021.00	Child, Family, & School Social Worker	He, En
21-1091.00	Health Educator	He, En
21-1092.00	Probation Officer & Correctional Treatment Specialist	He, En, As
21-1093.00	Social & Human Service Assistant	Co, St, He
21-1094.00	Community Health Worker	He, Inq, En
21-2021.00	Director, Religious Activities & Education	En, He, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
19-3022.00	Survey Researcher	Lo, Inq, Co
19-3033.00	Clinical Psychologist	Inq, He, Ex
19-3039.02	Neuropsychologist	He, Inq, Ex
19-3039.03	Clinical Neuropsychologist	Inq, He, Ex
21-1011.00	Substance Abuse & Behavioral Disorder Counselor	He, Ex, Inq
21-1012.00	Educational, Guidance, School, & Vocational Counselor	He
21-1013.00	Marriage & Family Therapist	He, Ex, Inq
21-1014.00	Mental Health Counselor	He, Inq, Ex
21-1015.00	Rehabilitation Counselor	He, Inq
21-1022.00	Healthcare Social Worker	He, Inq
21-1023.00	Mental Health & Substance Abuse Social Worker	He, Inq, Ex
21-2011.00	Clergy	He, En, Ex
25-1066.00	Psychology Teacher, Postsecondary	He, Inq, Inf
25-1113.00	Social Work Teacher, Postsecondary	He, Inq
25-9021.00	Farm & Home Management Advisor	He, Pr, En
29-1122.00	Occupational Therapist	He, Inq, Lo
29-1122.01	Low Vision Therapist, Orientation & Mobility Specialist, & Vision Rehabilitation Therapist	He, Inq, Pr
29-1127.00	Speech-Language Pathologist	He, Inq, Ex
29-1223.00	Psychiatrist	Inq. Lo. He

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Academy of Religion www.aarweb.org/ 	<ul style="list-style-type: none"> American Association for Marriage & Family Therapy www.aamft.org/
<ul style="list-style-type: none"> Association for Clinical Pastoral Education https://acpe.edu/ 	<ul style="list-style-type: none"> American Counseling Association www.counseling.org/
<ul style="list-style-type: none"> American Mental Health Counselors Association www.amhca.org/home 	<ul style="list-style-type: none"> American Occupational Therapy Association www.aota.org/
<ul style="list-style-type: none"> American Probation & Parole Association www.appa-net.org/eweb/ 	<ul style="list-style-type: none"> American Psychiatric Association www.psychiatry.org/
<ul style="list-style-type: none"> American Psychological Association www.apa.org/ 	<ul style="list-style-type: none"> American Rehabilitation Counseling Association https://arcaweb.org/
<ul style="list-style-type: none"> American Speech-Language-Hearing Association www.asha.org/ 	<ul style="list-style-type: none"> National Association of Social Workers www.socialworkers.org
<ul style="list-style-type: none"> National Career Development Association www.ncda.org/aws/NCDA/pt/sp/home_page 	<ul style="list-style-type: none"> The Association for Addiction Professionals www.naadac.org/

Notes

Nature, Agriculture & Environment

Occupations in **Nature, Agriculture & Environment** typically include farming and working outdoors. Jobs involve a range of activities such as planting, cultivating, and harvesting crops, tending to nurseries and greenhouses, raising animals, and managing, improving, and protecting natural resources. Related jobs might include landscaping, gardening, and groundskeeping. This interest can often be fulfilled through recreational activities and hobbies outside of your work. Both post-secondary education and on-the-job training are available for many of these jobs. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Nature-Agriculture	Author-Journalism
Family Activity	Teaching
Skilled Trades	Performing Arts
Accountability	Mediation & Persuasion
Life Science	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
37-3011.00	Landscaping & Groundskeeping Worker	Pr, Co
39-2021.00	Nonfarm Animal Caretaker	Pr, Co
45-2041.00	Grader & Sorter, Agricultural Products	Pr, Co, St
45-2093.00	Farmworker, Farm, Ranch, & Aquacultural Animals	Pr
45-3031.00	Fisher and Hunting Workers	Pr
45-4021.00	Faller	Pr, Co, St
51-3022.00	Meat, Poultry, & Fish Cutter & Trimmer	Pr
51-3023.00	Slaughterer & Meat Packer	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
13-1074.00	Farm Labor Contractor	En, Pr, He
33-9011.00	Animal Control Worker	Pr, He, Co
37-2021.00	Pest Control Worker	Pr, Co, St
37-3012.00	Pesticide Handler, Sprayer, & Applicator, Vegetation	Pr, Co, St
37-3013.00	Tree Trimmer & Pruner	Pr

High School Diploma		
O*NET Code	Job Title	WP Code
39-2011.00	Animal Trainer	Pr
45-1011.00	First-Line Supervisor of Logging Workers	En, Pr, Co
45-2011.00	Agricultural Inspector	Pr, Co, St
45-2091.00	Agricultural Equipment Operator	Pr
45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	Pr
47-4099.03	Weatherization Installer & Technician	Pr, Co
53-1042.01	Recycling Coordinator	En, Co
53-7026.04	Recycling & Reclamation Worker	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
19-4012.00	Agricultural Technician	Pr, Lo, Co
19-4071.00	Forest & Conservation Technician	Pr, Inq, En
31-9096.00	Veterinary Assistant & Laboratory Animal Caretaker	Pr, He, Inq
37-1012.00	First-Line Supervisor of Landscaping, Lawn Service, & Groundskeeping Workers	En, Pr, Co
45-2021.00	Animal Breeder	Pr, Inq
45-4011.00	Forest & Conservation Worker	Pr, Co, Lo
45-4023.00	Log Grader & Scaler	Pr, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9013.00	Farmers, Ranchers, and Other Agricultural Managers	En, Pr, Co
11-9041.01	Biofuels/Biodiesel Technology & Product Development Manager	En, Inq
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
13-1021.00	Buyer & Purchasing Agent, Farm Products	En, Co, Pr
13-1199.05	Sustainability Specialist	En, Inq, Ex
17-2021.00	Agricultural Engineer	Lo, Pr, En
19-1031.00	Conservation Scientists	Inq, Pr, En
19-1031.02	Range Manager	Pr, Inq, As
19-1031.03	Park Naturalist	He, Pr, Ex
19-1032.00	Forester	Pr, Inq, En
19-4099.01	Precision Agriculture Technician	Pr, Lo, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1041.00	Agricultural Sciences Teacher, Postsecondary	He, Inq, Pr
25-1043.00	Forestry & Conservation Science Teacher, Postsecondary	He, Inq, Pr
25-1053.00	Environmental Science Teacher, Postsecondary	He, Inq, Ex
25-9021.00	Farm & Home Management Advisor	He, Pr, En
29-1131.00	Veterinarian	Inq, Lo, Pr

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Association for Laboratory Animal Science www.aalas.org/ 	<ul style="list-style-type: none"> American Association of Meat Processors www.aamp.com/
<ul style="list-style-type: none"> American Fisheries Society https://fisheries.org/ 	<ul style="list-style-type: none"> American Society of Agricultural & Biological Engineers www.asabe.org/
<ul style="list-style-type: none"> American Society of Agronomy www.agronomy.org/ 	<ul style="list-style-type: none"> American Society of Farm Managers & Rural Appraisers www.asfmra.org/
<ul style="list-style-type: none"> American Veterinary Medical Association www.avma.org/ 	<ul style="list-style-type: none"> Crop Science Society of America www.crops.org/
<ul style="list-style-type: none"> International Boarding & Pet Services Association www.ibpsa.com/ 	<ul style="list-style-type: none"> National Animal Care & Control Association www.nacanet.org/
<ul style="list-style-type: none"> National Association of Environmental Professionals www.naep.org/ 	<ul style="list-style-type: none"> National Dog Groomers Association of America https://nationaldoggroomers.com
<ul style="list-style-type: none"> National FFA Organization - Future Farmers of America www.ffa.org/ 	<ul style="list-style-type: none"> Society for Range Management https://rangelands.org/
<ul style="list-style-type: none"> Society of American Foresters www.eforester.org/ 	<ul style="list-style-type: none"> Soil Science Society of America www.soils.org/
<ul style="list-style-type: none"> Tree Care Industry Association http://treecareindustryassociation.org/ 	

EXPLORE YOUR FUTURE



Notes

Physical Health & Recreation

Occupations in **Physical Health & Recreation** typically involve individuals who have an interest in physical health and education, sport, and recreation. Tasks and responsibilities may include providing and promoting athletic, fitness, or rehabilitative programs, instructing recreational activities to improve the physical health of people, training, coaching, and evaluating athletes, or officiating and enforcing rules at athletic events. Consider satisfying an interest in this field outside of work through hobbies or recreational activities. Many jobs in this group require post-secondary education or specialized certification, while some may provide on-the-job training. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Medical Service	Finance
Adventure	Technical Writing
Life Science	Law
Nature-Agriculture	
Authoritarian Leadership	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
39-3091.00	Amusement & Recreation Attendant	En, Co, Pr

High School Diploma		
O*NET Code	Job Title	WP Code
27-2021.00	Athlete & Sports Competitor	Pr, En, As
31-2022.00	Physical Therapist Aide	He, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-2023.00	Umpire, Referee, & Other Sports Official	Pr, En, Co
27-2031.00	Dancer	Ex, Pr
31-2021.00	Physical Therapist Assistant	He, Pr, Inq
39-9031.00	Fitness Trainer & Aerobics Instructor	He, Pr, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9179.01	Fitness & Wellness Coordinator	En, He
13-1011.00	Agent & Business Manager of Artists, Performers, & Athletes	En, As, He
25-2059.01	Adapted Physical Education Specialist	He, Pr
27-2022.00	Coach & Scout	He, Pr, En
27-2032.00	Choreographer	Ex, He, En
27-3011.00	Radio & Television Announcer	Ex, En, As
29-1125.00	Recreational Therapist	He, Ex
39-9032.00	Recreation Worker	He, En, Ex

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1193.00	Recreation & Fitness Studies Teacher, Postsecondary	He
29-1229.06	Sports Medicine Physician	Inq, He, Pr
29-1123.00	Physical Therapist	He, Inq, Pr
29-1128.00	Exercise Physiologist	He, Inq, Pr
29-9091.00	Athletic Trainer	He, Pr, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • Amateur Athletic Union https://ausports.org/ 	<ul style="list-style-type: none"> • American Medical Society for Sports Medicine www.amssm.org
<ul style="list-style-type: none"> • American Physical Therapy Association www.apta.org/ 	<ul style="list-style-type: none"> • American Therapeutic Recreation Association www.atra-online.com/
<ul style="list-style-type: none"> • Athletics & Fitness Association of America www.affaa.com/ 	<ul style="list-style-type: none"> • National Association of Schools of Dance https://nasd.arts-accredit.org/
<ul style="list-style-type: none"> • National Association of Sports Officials www.naso.org/ 	<ul style="list-style-type: none"> • National Athletic Trainers' Association www.nata.org/
<ul style="list-style-type: none"> • National High School Athletic Coaches Association https://nhsaca.org/ 	<ul style="list-style-type: none"> • National Recreation & Park Association www.nrpa.org/
<ul style="list-style-type: none"> • National Strength & Conditioning Association www.nasca.com/ 	<ul style="list-style-type: none"> • Society of Health and Physical Educators www.shapeamerica.org/



Notes

Merchandising & Marketing

Occupations in **Merchandising & Marketing** involve those that contribute to the sale of products in a wide variety of fields. Responsibilities may include negotiating and contracting for the purchase of materials for use or resale, determining the demand for products and services, developing pricing strategies, monitoring market trends, and analyzing marketing systems. Careers in related areas include advertising, sales, distribution, printing, and clerical work in the merchandising field. Some jobs may require post-secondary education, while others provide training on the job or require several years of experience. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Office Work	Medical Service
Business	Life Science
Sales	Nature-Agriculture
Finance	
Consulting	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
13-1022.00	Wholesale & Retail Buyer	En, Co
15-1299.01	Web Administrator	Co, En, Lo
27-1026.00	Merchandise Displayer & Window Trimmer	Ex, En, Pr
43-3061.00	Procurement Clerk	Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2011.00	Advertising & Promotions Managers	En, Ex, Co
11-2021.00	Marketing Manager	En, As, Co
11-3061.00	Purchasing Manager	En, As, Co
11-3071.04	Supply Chain Manager	En, Co
13-1021.00	Buyer & Purchasing Agent, Farm Products	En, Co, Pr
13-1023.00	Purchasing Agent	Co, En, As
13-1081.00	Logistician	En, Co, St
13-1081.02	Logistics Analyst	Co, En, Lo
13-1121.00	Meeting, Convention, & Event Planner	En, Co, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1161.00	Market Research Analyst & Marketing Specialist	Lo, En, Co
13-1161.01	Search Market Strategist	En, Inq, Co
13-1199.06	Online Merchant	En, Co, Pr
27-1024.00	Graphic Designer	Ex, Pr, En
27-3043.00	Writers and Authors	En, Ex, Inf

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • AIGA - American Institute of Graphic Arts www.aiga.org/ 	<ul style="list-style-type: none"> • American Advertising Federation www.aaf.org/
<ul style="list-style-type: none"> • American e-Commerce Association www.aeaus.com/ 	<ul style="list-style-type: none"> • American Marketing Association www.ama.org/
<ul style="list-style-type: none"> • American Purchasing Society www.american-purchasing.com/home 	<ul style="list-style-type: none"> • Insights Association www.insightsassociation.org/
<ul style="list-style-type: none"> • Institute for Supply Management www.ismworld.org/ 	<ul style="list-style-type: none"> • National Retail Federation https://nrf.com

Notes

Entertainment

Occupations in **Entertainment** may include a variety of interests, such as drama, dance, and music, as well as creative writing for radio, television, and motion pictures. Jobs range from directly performing for an audience to making creative decisions about scripts, actors, and choreography. An interest in this area can be fulfilled through activities outside of your career. Most jobs in this field require natural talent while some provide training on the job and others require specialized training. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Performing Arts

Creative Arts

Author-Journalism

Interpersonal Confidence

Low Basic Interest Scales

Supervising Others

Finance

Organization

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
41-9012.00	Model	Ex, En, Pr

High School Diploma		
O*NET Code	Job Title	WP Code
27-2011.00	Actor	Ex, En, As
27-2042.00	Musicians and Singers	Ex, En, As
27-3099.00	Media and Communication Workers, All Other	He, En, Ex
39-3021.00	Motion Picture Projectionist	Pr, Co, St
39-3031.00	Usher, Lobby Attendant, & Ticket Taker	He, Co, En
39-3092.00	Costume Attendant	Co, Pr

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-2031.00	Dancer	Ex, Pr
27-4011.00	Audio & Video Equipment Technician	Pr, Lo, Co
27-4012.00	Broadcast Technician	Pr, Co, St
27-4014.00	Sound Engineering Technician	Pr, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-4031.00	Camera Operator, Television, Video, & Motion Picture	Pr, Ex
27-4032.00	Film & Video Editor	Ex, En, Inq
39-5091.00	Makeup Artist, Theatrical & Performance	Ex, Pr

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1011.00	Agent & Business Manager of Artists, Performers, & Athletes	En, As, He
27-2012.00	Producers and Directors	En, As, Ex
27-2012.03	Program Director	En, Co, Ex
27-2012.04	Talent Director	En, As, Ex
27-2012.05	Technical Director/Manager	En, Pr, Co
27-2032.00	Choreographer	Ex, He, En
27-2041.00	Music Directors and Composers	Ex, En, He
27-3011.00	Radio & Television Announcer	Ex, En, As
27-3023.00	News Analysts, Reporters and Journalists	Ex, Inf, He
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121.00	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Federation of Musicians www.afm.org/ 	<ul style="list-style-type: none"> American Film Institute www.afi.com/
<ul style="list-style-type: none"> Association of Talent Agents www.agentassociation.com/index.php 	<ul style="list-style-type: none"> Audio Engineering Society https://aes2.org
<ul style="list-style-type: none"> Directors Guild of America www.dga.org/ 	<ul style="list-style-type: none"> Educational Theatre Association www.schooltheatre.org/
<ul style="list-style-type: none"> Lighting & Sound America www.lightingandsoundamerica.com/ 	<ul style="list-style-type: none"> National Dance Education Organization www.ndeo.org/

EXPLORE YOUR FUTURE



Professional Organizations	
<ul style="list-style-type: none">• Producers Guild of America https://producersguild.org/	<ul style="list-style-type: none">• Screen Actors Guild - American Federation of Television & Radio Artists www.sagaftra.org/

Notes

Teaching & Instruction

Occupations in **Teaching & Instruction** focus on education, instruction, course development, and research in specialized subjects. People in this field work in high schools, colleges, universities, and organizations. Teachers tend to specialize in specific subject areas, such as art, engineering, or the social sciences. Consider combining your interest in teaching with your other interests. An undergraduate degree and/or teacher education is required for most teaching jobs, while other jobs as instructors require specialized training in topics such as adult learning. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Teaching	Physical Science
Elementary Education	Engineering
Social Service	Life Science
Office Work	
Mediation & Persuasion	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-1194.00	Vocational Education Teacher, Postsecondary	He, Pr
25-3021.00	Self-Enrichment Education Teacher	He, Ex, En
25-9042.00	Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education	He, Co, St

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9179.01	Fitness & Wellness Coordinator	En, He
19-1031.03	Park Naturalist	He, Pr, Ex
21-1091.00	Health Educator	He, En
21-2021.00	Director, Religious Activities & Education	En, He, Co
25-2021.00	Elementary School Teacher	He, Ex, Co
25-2022.00	Middle School Teacher	He, Ex, Inf
25-2023.00	Career/Technical Education Teacher, Middle School	He, Ex, Co
25-2031.00	Secondary School Teacher	He, Ex, Inf
25-2032.00	Career/Technical Education Teacher, Secondary School	He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
25-2055.00	Special Education Teacher, Kindergarten	He, Ex
25-2057.00	Special Education Teacher, Middle School	He, Ex
25-2058.00	Special Education Teacher, Secondary School	He, Inq
25-2059.01	Adapted Physical Education Specialist	He, Pr
25-3011.00	Adult Basic & Secondary Education & Literacy Teacher & Instructor	He, Ex, Inf
25-3041.00	Tutors	He, Inq
25-4031.00	Library Technician	Co, He, En

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9032.00	Education Administrator, Elementary & Secondary School	En, He, Co
11-9033.00	Education Administrator, Postsecondary	En, Co, He
11-9039.01	Distance Learning Coordinator	En, Co
19-3031.01	School Psychologist	Inq, Lo, He
25-1011.00	Business Teacher, Postsecondary	He, En, Inq
25-1021.00	Computer Science Teacher, Postsecondary	He, Lo, Inq
25-1022.00	Mathematical Science Teacher, Postsecondary	He, Lo, Inq
25-1042.00	Biological Science Teacher, Postsecondary	He, Inq, Lo
25-1052.00	Chemistry Teacher, Postsecondary	He, Lo, Pr
25-1054.00	Physics Teacher, Postsecondary	He, Lo, Inq
25-1063.00	Economics Teacher, Postsecondary	He, Inq, Lo
25-1064.00	Geography Teacher, Postsecondary	He, Inq, Lo
25-1081.00	Education Teacher, Postsecondary	He, Ex, Inf
25-1082.00	Library Science Teacher, Postsecondary	He, Inq, St
25-1121.00	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf
25-1123.00	English Language & Literature Teacher, Postsecondary	He, Inf, Ex
25-1125.00	History Teacher, Postsecondary	He, Inq, Inf
25-1126.00	Philosophy & Religion Teacher, Postsecondary	He, Ex, Inq
25-1192.00	Home Economics Teacher, Postsecondary	He, Inq, Ex
25-4022.00	Librarians and Media Collections Specialists	Co, He, En
25-9021.00	Farm & Home Management Advisor	He, Pr, En
25-9031.00	Instructional Coordinator	He, Inq, En



Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none">• AASA, The School Superintendents Association <i>www.aasa.org</i>	<ul style="list-style-type: none">• American Association for Adult & Continuing Education <i>www.aaace.org/</i>
<ul style="list-style-type: none">• American Association for Employment in Education <i>www.aaee.org/</i>	<ul style="list-style-type: none">• American Association for Teaching & Curriculum <i>www.aatc1994.org/</i>
<ul style="list-style-type: none">• American Association of University Professors <i>www.aaup.org/</i>	<ul style="list-style-type: none">• American Educational Research Association <i>www.aera.net/</i>
<ul style="list-style-type: none">• American Federation of Teachers <i>www.aft.org/</i>	<ul style="list-style-type: none">• American Library Association <i>www.ala.org/</i>
<ul style="list-style-type: none">• Association for Talent Development <i>www.td.org/</i>	<ul style="list-style-type: none">• National Association of Secondary School Principals <i>www.nassp.org/</i>
<ul style="list-style-type: none">• National Association of Special Education Teachers <i>www.naset.org/</i>	<ul style="list-style-type: none">• National Education Association <i>www.nea.org/</i>
<ul style="list-style-type: none">• North American Association for the Study of Religion <i>https://naasr.com/</i>	<ul style="list-style-type: none">• Religious Education Association <i>https://religiouseducation.net/</i>
<ul style="list-style-type: none">• Society of Health and Physical Educators <i>www.shapeamerica.org/</i>	

Notes

Music

Occupations in **Music** involve the composition, arrangement, performance, and/or direction of instrumental or vocal music. Musical skills can be incorporated into various medical and/or social service functions and into areas of special education as well. Keep in mind that a professional career in this field is typically highly competitive and often requires high levels of talent. Interests in music can also be satisfied through hobbies, volunteering, and social activities. Training in a specific instrument or musical skill, extensive practice, and musical talent is often necessary for a career in this field. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Performing Arts
Creative Arts
Personal Service
Elementary Education

Low Basic Interest Scales

Finance
Supervising Others
Law

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
27-2042.00	Musicians and Singers	Ex, En, As
27-3099.00	Media and Communication Workers, All Other	He, En, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-9049.00	Teaching Assistants, Postsecondary	He, Co
27-4011.00	Audio & Video Equipment Technician	Pr, Lo, Co
27-4014.00	Sound Engineering Technician	Pr, Ex
49-9063.00	Musical Instrument Repairer & Tuner	Pr, Ex, Lo

Bachelor's Degree		
O*NET Code	Job Title	WP Code
27-2041.00	Music Director and Composers	Ex, En, He
27-3043.05	Poet, Lyricist & Creative Writer	Ex, Inf, Inq
29-1129.02	Music Therapist	He, Ex, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121.00	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Choral Directors Association https://acda.org 	<ul style="list-style-type: none"> American Composers Alliance https://composers.com/
<ul style="list-style-type: none"> American Federation of Musicians www.afm.org/ 	<ul style="list-style-type: none"> American Society of Composers, Authors & Publishers www.ascap.com/
<ul style="list-style-type: none"> Audio Engineering Society www.aes2.org 	<ul style="list-style-type: none"> Music Teachers National Association www.mtna.org/
<ul style="list-style-type: none"> National Association for Music Education https://nafme.org/ 	<ul style="list-style-type: none"> Screen Actors Guild - American Federation of Television & Radio Artists www.sagaftra.org/
<ul style="list-style-type: none"> Songwriters Guild of America www.songwritersguild.com/site/index.php 	<ul style="list-style-type: none"> The College Music Society www.music.org/

Notes

Commercial Art & Design

Occupations in **Commercial Art & Design** use creative designs, plans, drawings, computer programs, and other artistic skills to develop, sell, and market a range of products and services. Jobs may involve decorating and furnishing homes and offices, designing the structure of buildings, or capturing images for advertising purposes. Many occupations in this field require artistic talent and specialized college or university training. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Creative Arts

Performing Arts

Author-Journalism

Physical Science

Low Basic Interest Scales

Supervising Others

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
27-1023.00	Floral Designer	Ex, En, Pr
39-3021.00	Motion Picture Projectionist	Pr, Co, St
39-3092.00	Costume Attendant	Co, Pr
51-6051.00	Sewer, Hand	Pr, Ex, Co
51-9123.00	Painting, Coating, & Decorating Worker	Pr
51-9151.00	Photographic Process Worker & Processing Machine Operator	Co, Pr, St
51-9195.03	Stone Cutter & Carver, Manufacturing	Pr, Ex
51-9195.04	Glass Blower, Molder, Bender, & Finisher	Pr, Co, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
15-1254.00	Web Developer	Co, Lo, Pr
15-1299.01	Web Administrator	Co, En, Lo
27-1022.00	Fashion Designer	Ex, En, Pr
27-1026.00	Merchandise Displayer & Window Trimmer	Ex, En, Pr
27-4021.00	Photographer	Ex, Pr
27-4031.00	Camera Operator, Television, Video, & Motion Picture	Pr, Ex
27-4032.00	Film & Video Editor	Ex, En, Inq

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
39-5091.00	Makeup Artist, Theatrical & Performance	Ex, Pr
43-9031.00	Desktop Publisher	Ex, Lo, Co
51-5111.00	Prepress Technician & Worker	Pr, Co, St
51-6092.00	Fabric & Apparel Patternmaker	Pr, Ex, Co
51-9071.00	Jewelers and Precious Stone and Metal Workers	Pr, Ex

Bachelor's Degree		
O*NET Code	Job Title	WP Code
17-1011.00	Architect	Ex, Lo, Inq
17-1012.00	Landscape Architect	Ex, Inq, Pr
17-3011.00	Architectural Drafter	Ex, Pr, Lo
27-1011.00	Art Director	Ex, En, As
27-1014.00	Multimedia Artist & Animator	Ex, Inq
27-1021.00	Commercial & Industrial Designer	Ex, En, Pr
27-1024.00	Graphic Designer	Ex, Pr, En
27-1025.00	Interior Designer	Ex, En, As

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1031.00	Architecture Teacher, Postsecondary	He, Ex
27-1027.00	Set & Exhibit Designer	Ex, Pr

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • AIGA - American Institute of Graphic Arts www.aiga.org/ 	<ul style="list-style-type: none"> • American Apparel & Footwear Association www.aafaglobal.org/
<ul style="list-style-type: none"> • American Institute of Architects www.aia.org/ 	<ul style="list-style-type: none"> • American Institute of Floral Designers https://aifd.org/
<ul style="list-style-type: none"> • American Society of Interior Designers www.asid.org/ 	<ul style="list-style-type: none"> • American Society of Landscape Architects www.asla.org/
<ul style="list-style-type: none"> • American Society of Media Photographers www.asmp.org/ 	<ul style="list-style-type: none"> • College Art Association www.collegeart.org/

Professional Organizations	
<ul style="list-style-type: none"> • Council of Fashion Designers of America https://cfda.com/ 	<ul style="list-style-type: none"> • Industrial Designers Society of America www.idsa.org/
<ul style="list-style-type: none"> • Jewelers of America www.jewelers.org/ 	<ul style="list-style-type: none"> • National Cartoonists Society https://nationalcartoonists.com/
<ul style="list-style-type: none"> • Professional Photographers of America www.ppa.com/ 	<ul style="list-style-type: none"> • Society of Illustrators www.societyillustrators.org/

Notes

Fine Art

Occupations in **Fine Art** involve representation, design, and personal expression through different types of artistic media, such as painting, drawing, photography, and sculpture. Related jobs may include illustrating for books or comics, designing and arranging layouts for printing, or planning and organizing the exhibition of art collections. An interest in this area can be fulfilled through areas outside of your career. Jobs in this field require artistic talent and often specialized education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Creative Arts	Finance
Performing Arts	Supervising Others
Nature-Agriculture	Law
Life Science	
Author-Journalism	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
39-3092.00	Costume Attendant	Co, Pr
51-9123.00	Painting, Coating, & Decorating Worker	Pr
51-9194.00	Etcher & Engraver	Pr, Co
51-9195.03	Stone Cutter & Carver, Manufacturing	Pr, Ex
51-9195.04	Glass Blower, Molder, Bender, & Finisher	Pr, Co, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
27-1012.00	Craft Artist	Ex, Pr, En
27-1013.00	Fine Artist, Including Painter, Sculptor, & Illustrator	Ex, Pr
27-1022.00	Fashion Designer	Ex, En, Pr
27-4021.00	Photographer	Ex, Pr
39-5091.00	Makeup Artist, Theatrical & Performance	Ex, Pr
39-7011.00	Tour Guide & Escort	He, En, As
51-6052.00	Tailor, Dressmaker, & Custom Sewer	Pr, Ex, En
51-6092.00	Fabric & Apparel Patternmaker	Pr, Ex, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-9071.00	Jewelers and Precious Stone and Metal Workers	Pr, Ex
51-9195.05	Potter, Manufacturing	Pr, Ex

Bachelor's Degree		
O*NET Code	Job Title	WP Code
25-4013.00	Museum Technician & Conservator	Pr, Ex
27-1011.00	Art Director	Ex, En, As
27-1014.00	Multimedia Artist & Animator	Ex, Inq

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1121.00	Art, Drama, & Music Teacher, Postsecondary	He, Ex, Inf
25-4011.00	Archivist	Co, Inq, Lo
25-4012.00	Curator	En, As, Co
27-1027.00	Set & Exhibit Designer	Ex, Pr
29-1125.01	Art Therapist	He, Ex, Inq

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • Allied Artists of America www.alliedartistsofamerica.org 	<ul style="list-style-type: none"> • American Alliance of Museums www.aam-us.org/
<ul style="list-style-type: none"> • American Art Pottery Association https://aapa.info/ 	<ul style="list-style-type: none"> • American Craft Council www.craftcouncil.org/
<ul style="list-style-type: none"> • American Institute for Conservation of Historic & Artistic Works www.culturalheritage.org/ 	<ul style="list-style-type: none"> • Association of Art Museum Curators www.artcurators.org
<ul style="list-style-type: none"> • College Art Association www.collegeart.org/ 	<ul style="list-style-type: none"> • National Cartoonists Society https://nationalcartoonists.com/
<ul style="list-style-type: none"> • National Sculpture Society https://nationalsculpture.org/ 	<ul style="list-style-type: none"> • Portrait Society of America www.portraitsociety.org/
<ul style="list-style-type: none"> • Professional Photographers of America www.ppa.com/ 	<ul style="list-style-type: none"> • Society of Illustrators https://societyillustrators.org



Notes

Service & Hospitality

Occupations in **Service & Hospitality** are highly focused on ensuring the physical and social comfort and well-being of people, on either an individual or group basis. These jobs provide a wide variety of services to others, such as food service, accommodations, travel and tourism, and personal services, such as hairstyling and esthetics. Responsibilities may include serving patrons at a restaurant, booking airline tickets, cleaning hotel rooms, or giving a client a manicure. Most of these jobs provide training on the job; however, some may require specialized education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Personal Service	Social Science
Office Work	Physical Science
Family Activity	Technical Writing
Business	
Skilled Trades	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
35-2011.00	Cook, Fast Food	Pr, Co, St
35-2015.00	Cook, Short Order	Pr, Co, St
35-2021.00	Food Preparation Worker	Pr, Co, St
35-3023.00	Fast Food and Counter Workers	Co, Pr, En
35-3022.00	Counter Attendant, Cafeteria, Food Concession, & Coffee Shop	Pr, He, En
35-3022.01	Barista	En, Co, Pr
35-3031.00	Waiter & Waitress	He, En, Co
35-3041.00	Food Server, Nonrestaurant	He, Pr, En
35-9011.00	Dining Room & Cafeteria Attendant & Bartender Helper	Pr, Co, He
35-9021.00	Dishwasher	Pr, Co, St
35-9031.00	Host & Hostess, Restaurant, Lounge, & Coffee Shop	En, He
39-3091.00	Amusement & Recreation Attendant	En, Co, Pr
41-2011.00	Cashier	Co, St, En
49-9099.00	Installation, Maintenance, and Repair Workers, All Other	Pr
51-6011.00	Laundry & Dry-Cleaning Worker	Pr, Co, St
51-6021.00	Presser, Textile, Garment, & Related Materials	Pr, Co, St
51-6031.00	Sewing Machine Operator	Pr, Co, St

Minimal Education		
O*NET Code	Job Title	WP Code
53-3054.00	Taxi Driver	Pr, En

High School Diploma		
O*NET Code	Job Title	WP Code
35-1012.00	First-Line Supervisor of Food Preparation & Serving Worker	En, Co, Pr
35-2012.00	Cook, Institution & Cafeteria	Pr, Co, St
35-2014.00	Cook, Restaurant	Pr, En, As
35-3011.00	Bartender	En, Co, Pr
37-1011.00	First-Line Supervisor of Housekeeping & Janitorial Workers	En, Co, Pr
37-2011.00	Janitor & Cleaner, Except Maid & Housekeeping Cleaner	Pr, Co, St
37-2012.00	Maid & Housekeeping Cleaner	Pr, Co, St
39-1013.00	First-Line Supervisors of Gambling Services Workers	En, As, Co
39-3011.00	Gaming Dealer	Co, En, Pr
39-3012.00	Gaming & Sports Book Writer & Runner	Co, En, Pr
39-3031.00	Usher, Lobby Attendant, & Ticket Taker	He, Co, En
39-3092.00	Costume Attendant	Co, Pr
39-3093.00	Locker Room, Coatroom, & Dressing Room Attendant	He, En, Co
39-4021.00	Funeral Attendant	He, En, Pr
39-5092.00	Manicurist & Pedicurist	Pr, En, He
39-5093.00	Shampooer	Pr, En, Co
39-6011.00	Baggage Porter & Bellhop	Pr, Co, St
43-4081.00	Hotel, Motel, & Resort Desk Clerk	Co, En, He
43-4181.00	Reservation & Transportation Ticket Agent & Travel Clerk	Co, En, He
43-5011.00	Cargo & Freight Agent	Co, En, Pr
49-9094.00	Locksmith & Safe Repairer	Pr, Co, St
51-3011.00	Baker	Pr, Co, St
51-3021.00	Butcher & Meat Cutter	Pr, Co, En
51-3093.00	Food Cooking Machine Operator & Tender	Pr, Co, St
51-6041.00	Shoe & Leather Worker & Repairer	Pr, Co, Ex
51-6051.00	Sewer, Hand	Pr, Ex, Co
51-6093.00	Upholsterer	Pr
51-9083.00	Ophthalmic Laboratory Technician	Pr, Co, St
53-1043.00	First-Line Supervisor of Material-Moving Machine & Vehicle Operators	En, Co, Pr
53-3011.00	Ambulance Driver & Attendant, Except Emergency Medical Technician	Pr, He
53-3031.00	Driver/Sales Worker	Pr, En
53-3033.00	Light Truck or Delivery Services Driver	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
53-3051.00	Bus Driver, School or Special Client	Pr, Co
53-3052.00	Bus Driver, Transit & Intercity	Pr, He
53-4041.00	Subway & Streetcar Operator	Pr, Co, St
53-5022.00	Motorboat Operator	Pr, Co, En
53-6021.00	Parking Lot Attendant	Pr, Co, St
53-6031.00	Automotive & Watercraft Service Attendant	Pr, Co, St
53-6061.00	Transportation Attendant	Pr, He, En
53-7061.00	Cleaner of Vehicles & Equipment	Pr, Co
53-7064.00	Packer & Packager, Hand	Pr, Co, St
53-7081.00	Refuse & Recyclable Material Collector	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9051.00	Food Service Manager	En, Co, Pr
11-9071.00	Gaming Manager	En, As, Co
11-9081.00	Lodging Manager	En, Co, He
11-9179.02	Spa Manager	En, Co, He
35-1011.00	Chef & Head Cook	En, Pr, Ex
35-2013.00	Cook, Private Household	Ex, Pr, Co
39-1022.00	First-Line Supervisor of Personal Service Workers	En, Co, He
39-4031.00	Mortician, Undertaker, & Funeral Director	En, He, Co
39-5011.00	Barber	Pr, En, Co
39-5012.00	Hairdresser, Hairstylist, & Cosmetologist	Ex, En, He
39-5094.00	Skincare Specialist	En, He, Pr
39-6012.00	Concierge	He, En
39-7011.00	Tour Guide & Escort	He, En, As
39-7012.00	Travel Guide	En, As, Co
41-3041.00	Travel Agent	En, As, Co
51-6052.00	Tailor, Dressmaker, & Custom Sewer	Pr, Ex, En
53-2031.00	Flight Attendant	En, He, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1121.00	Meeting, Convention, & Event Planner	En, Co, He
19-1031.03	Park Naturalist	He, Pr, Ex

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Culinary Federation www.acfchefs.org/ 	<ul style="list-style-type: none"> American Gaming Association www.americangaming.org/
<ul style="list-style-type: none"> American Hotel & Lodging Association www.ahla.com/ 	<ul style="list-style-type: none"> American Personal & Private Chef Association www.personalchef.com/
<ul style="list-style-type: none"> American Public Transportation Association www.apta.com/ 	<ul style="list-style-type: none"> American Society for Quality https://asq.org/
<ul style="list-style-type: none"> American Society of Travel Agents www.asta.org/ 	<ul style="list-style-type: none"> Association of Flight Attendants-CWA www.afacwa.org/
<ul style="list-style-type: none"> Custom Tailors & Designers Association www.ctda.com/ 	<ul style="list-style-type: none"> International Customer Service Association http://icsatoday.org
<ul style="list-style-type: none"> International Executive Housekeepers Association www.ieha.org 	<ul style="list-style-type: none"> National Association for Home Care & Hospice www.nahc.org
<ul style="list-style-type: none"> National Bartenders Association https://bartender.org/ 	<ul style="list-style-type: none"> National Cleaners Association www.nca-i.com/
<ul style="list-style-type: none"> National Limousine Association www.limo.org 	<ul style="list-style-type: none"> National Restaurant Association https://restaurant.org/
<ul style="list-style-type: none"> Professional Beauty Association www.probeauty.org/ 	

Notes

Life Science & Research

Occupations in **Life Science & Research** are focused on the study of living organisms and in applying this knowledge in specific areas, such as food science, microbiology, environmental science, health science, and forestry. People working in this area may work in laboratories as scientists, researchers, technologists, and technicians. Jobs may involve designing and conducting research through lab tests and experiments, using scientific technology and equipment, and preparing research or technical reports. Most occupations in this group require college or university education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales

Life Science

Medical Service

Physical Science

Nature-Agriculture

Engineering

Low Basic Interest Scales

Mediation & Persuasion

Author-Journalism

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
51-9081.00	Dental Laboratory Technician	Pr, Lo, Inq

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-9171.00	Funeral Home Manager	En, Co, He
13-1041.06	Coroner	Inq, Lo, Pr
19-4012.00	Agricultural Technician	Pr, Lo, Co
19-4013.00	Food Science Technician	Pr, Lo, Inq
19-4071.00	Forest & Conservation Technician	Pr, Inq, En
19-5012.00	Occupational Health & Safety Technician	Co, St, Pr
29-2011.04	Histotechnologist	Pr, Inq, Co
29-2012.00	Medical & Clinical Laboratory Technician	Pr, Inq, Co
29-2034.00	Radiologic Technologist	Pr, He
39-4011.00	Embalmer	Pr, Co, Inq
51-9082.00	Medical Appliance Technician	Pr, Lo, He

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Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9041.01	Biofuels/Biodiesel Technology & Product Development Manager	En, Inq
11-9121.01	Clinical Research Coordinator	En, Inq, Co
11-9121.02	Water Resource Specialist	Inq, En, Co
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
15-2099.01	Bioinformatics Technician	Lo, Inq, Pr
17-2031.00	Bioengineers and Biochemical Engineer	Lo, Inq, Pr
19-1012.00	Food Scientist & Technologist	Inq, Pr, Co
19-1031.00	Conservation Scientist	Inq, Pr, En
19-1031.02	Range Manager	Pr, Inq, As
19-1032.00	Forester	Pr, Inq, En
19-2041.00	Environmental Scientist & Specialist, Including Health	Lo, Inq, Pr
19-4012.01	Precision Agriculture Technician	Pro, Lo, Co
19-4021.00	Biological Technician	Pr, Lo, Inq
19-4042.00	Environmental Science & Protection Technician, Including Health	Inq, Pr, St
19-4092.00	Forensic Science Technician	Lo, Inq, Pr
19-5011.00	Occupational Health & Safety Specialist	Inq, Lo, Co
29-2011.00	Medical & Clinical Laboratory Technologist	Inq, Pr, Co
29-2011.01	Cytogenetic Technologist	Inq, Pr, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9121.00	Natural Sciences Manager	En, Inq, Lo
15-2041.01	Biostatistician	Lo, Inq, Co
19-1011.00	Animal Scientist	Inq, Lo, Pr
19-1013.00	Soil & Plant Scientist	Inq, Lo, Pr
19-1021.00	Biochemist & Biophysicist	Inq, Lo, Ex
19-1022.00	Microbiologist	Inq, Lo, Pr
19-1023.00	Zoologist & Wildlife Biologist	Inq, Lo, Pr
19-1029.01	Bioinformatics Scientist	Lo, Inq, Co
19-1029.02	Molecular & Cellular Biologist	Inq, Pr, Ex
19-1029.03	Geneticist	Inq, Ex, Pr
19-1029.04	Biologist	Inq, Lo, Pr
19-1041.00	Epidemiologist	Inq, Lo, He
19-1042.00	Medical Scientist, Except Epidemiologist	Inq, Lo, Pr
19-2041.02	Environmental Restoration Planner	Inq, Pr, En
19-2041.03	Industrial Ecologist	Inq, En

Graduate Degree		
O*NET Code	Job Title	WP Code
25-1042.00	Biological Science Teacher, Postsecondary	He, Inq, Lo
29-2011.02	Cytotechnologist	Inq, Lo, Pr
29-9092.00	Genetic Counselor	He, Inq, Lo

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Institute of Biological Sciences www.aibs.org/ 	<ul style="list-style-type: none"> American Physiological Society www.physiology.org/
<ul style="list-style-type: none"> American Society for Biochemistry & Molecular Biology www.asbmb.org/ 	<ul style="list-style-type: none"> American Society for Cell Biology www.ascb.org
<ul style="list-style-type: none"> American Society for Microbiology www.asm.org/ 	<ul style="list-style-type: none"> American Society of Agronomy www.agronomy.org/
<ul style="list-style-type: none"> American Society of Animal Science www.asas.org/ 	<ul style="list-style-type: none"> American Society of Plant Biologists https://aspb.org/
<ul style="list-style-type: none"> Botanical Society of America www.botany.org/ 	<ul style="list-style-type: none"> Ecological Society of America www.esa.org/
<ul style="list-style-type: none"> Infectious Diseases Society of America www.idsociety.org/ 	<ul style="list-style-type: none"> Institute of Food Technologists www.ift.org/
<ul style="list-style-type: none"> Society for Range Management https://rangelands.org/ 	<ul style="list-style-type: none"> Society of American Foresters www.eforester.org/
<ul style="list-style-type: none"> Soil Science Society of America www.soils.org/ 	<ul style="list-style-type: none"> Zoological Association of America http://zooassociation.org/

Notes

Clerical & Administrative Support

Occupations in **Clerical & Administrative Support** involve a variety of duties and responsibilities, such as preparing, transcribing, transferring, organizing, and storing documents, files, and records, and using business computer applications. Other responsibilities might include assisting customers, delivering messages, collecting accounts, and distributing information. As clerical work is a part of almost every operation, clerical and administrative jobs are listed under other job groups as well. Some jobs in this field require post-secondary education or specialized training in areas such as computer applications. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Office Work	Life Science
Business	Medical Service
Consulting	Physical Science
Finance	
Supervising Others	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
43-2011.00	Switchboard Operator, Including Answering Service	Co, En, He
43-2021.00	Telephone Operator	Co, He, Pr
43-3011.00	Bill & Account Collector	Co, St, En
43-3021.00	Billing & Posting Clerk	Co, En, He
43-3021.02	Billing, Cost, & Rate Clerk	Co, St, En
43-3041.00	Gaming Cage Worker	St, En, Pr
43-3051.00	Payroll & Timekeeping Clerk	Co, St, En
43-3071.00	Teller	Co, St, En
43-4021.00	Correspondence Clerk	Co, St, En
43-4031.00	Court, Municipal and License Clerks	Co, En, Pr
43-4051.00	Customer Service Representative	En, He, Co
43-4071.00	File Clerk	Co, Pr, En
43-4081.00	Hotel, Motel, & Resort Desk Clerk	Co, En, He
43-4111.00	Interviewer, Except Eligibility & Loan	Co, En, He
43-4121.00	Library Assistant, Clerical	Co, Pr, He
43-4141.00	New Accounts Clerk	Co, En, He

High School Diploma		
O*NET Code	Job Title	WP Code
43-4151.00	Order Clerk	Co, En, He
43-4171.00	Receptionist & Information Clerk	Co, En, He
43-4181.00	Reservation & Transportation Ticket Agent & Travel Clerk	Co, En, He
43-5011.00	Freight Forwarder	Co, St, En
43-5021.00	Courier & Messenger	Pr, Co, En
43-5031.00	Police, Fire, & Ambulance Dispatcher	Co, St, Pr
43-5032.00	Dispatcher	Co, Pr, En
43-5041.00	Meter Reader, Utilities	Co, St, Pr
43-5051.00	Postal Service Clerk	Co, St, Pr
43-5052.00	Postal Service Mail Carrier	Co, St, Pr
43-5053.00	Postal Service Mail Sorter, Processor, & Processing Machine Operator	Co, St, Pr
43-5071.00	Shipping, Receiving, & Traffic Clerk	Co, Pr, En
43-5111.00	Weigher, Measurer, Checker, & Sampler, Recordkeeping	Co, St, Pr
43-9021.00	Data Entry Keyer	Co, Pr, En
43-9022.00	Word Processor & Typist	Co, St, En
43-9051.00	Mail Clerk & Mail Machine Operator	Co, St, Pr
43-9061.00	Office Clerk, General	Co, En, Pr
43-9071.00	Office Machine Operator	Pr, Co, St
53-1042.01	Recycling Coordinator	En, Co
53-4031.00	Railroad Conductor & Yardmaster	En, Pr, Co
53-7065.00	Stockers and Order Fillers	Co, Pr, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3012.00	Administrative Services Manager	En, As, Co
13-1041.08	Customs Broker	En, Co, St
27-3092.00	Court Reporter and Simultaneous Captioners	Co, St, En
29-2072.00	Medical Records Specialist	He, Co, Pr
29-9021.00	Health Information Technologists and Medical Registrars	Co, St, En
31-9094.00	Medical Transcriptionist	Co, St, Pr
43-1011.00	First-Line Supervisor of Office & Administrative Support Worker	En, Co, He
43-2099.00	Communications Equipment Operators, All Other	Pr, Co, St
43-3031.00	Bookkeeping, Accounting, & Auditing Clerk	Co, St, En
43-3061.00	Procurement Clerk	Co, En
43-4011.00	Brokerage Clerk	Co, St, En
43-4041.00	Credit Authorizers, Checkers, and Clerks	Co, St, En

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
43-4131.00	Loan Interviewer & Clerk	Co, St, En
43-5061.00	Production, Planning, & Expediting Clerk	Co, St, En
43-6011.00	Executive Secretary & Executive Administrative Assistant	Co, St, En
43-6012.00	Legal Secretary	Co, St, En
43-6013.00	Medical Secretary	Co, St, He
43-6014.00	Secretary & Administrative Assistant, Except Legal, Medical, & Executive	Co, St, En
43-9041.00	Insurance Claims and Policy Processing Clerks	Co, St, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
13-1031.00	Claims Adjusters, Examiners, and Investigators	Co, St, En
13-1199.05	Sustainability Specialist	En, Inq, Ex
25-4031.00	Library Technician	Co, He, En
43-9081.00	Proofreader & Copy Marker	Co, St, Inf

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Institute of Professional Bookkeepers https://aipb.org/ 	<ul style="list-style-type: none"> American Payroll Association https://payroll.org/
<ul style="list-style-type: none"> American Society of Administrative Professionals www.asaporg.com/ 	<ul style="list-style-type: none"> Association of Executive & Administrative Professionals www.theaeap.com/
<ul style="list-style-type: none"> Customized Logistics and Delivery Association https://clda.org/ 	<ul style="list-style-type: none"> International Association of Administrative Professionals www.iaap-hq.org/
<ul style="list-style-type: none"> International Customer Service Association www.icsatoday.org/ 	<ul style="list-style-type: none"> NALS The Association for Legal Professionals www.nals.org/
<ul style="list-style-type: none"> National Association of Professional Receptionists www.receptionists.us/ 	<ul style="list-style-type: none"> National Court Reporters Association www.ncra.org/
<ul style="list-style-type: none"> United States Postal Service www.usps.com/ 	

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Notes

Management & Administration

Occupations in **Management & Administration** involve supervising employees and planning and overseeing activities in the workplace. Many administrative roles also involve counseling, coaching, and supporting employees. A range of tasks are involved with management, but some focus on formulating policies, guidelines, programs, and procedures that provide overall direction to the team, unit, or organization. Some management jobs require post-secondary education; however, many can be acquired with several years of relevant job experience. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Law	Physical Science
Mediation & Persuasion	Creative Arts
Supervising Others	Life Science
Consulting	Engineering
Business	Skilled Trades

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
11-9131.00	Postmaster & Mail Superintendent	En, Co, He

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3012.00	Administrative Services Manager	En, As, Co
11-9013.00	Managers, All Other	En, Pr, Co
11-9051.00	Food Service Manager	En, Co, Pr
11-9071.00	Gaming Manager	En, As, Co
11-9081.00	Lodging Manager	En, Co, He
11-9171.00	Funeral Home Manager	En, Co, He

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-1021.00	General & Operations Manager	En, Co, He
11-2011.00	Advertising & Promotions Manager	En, Ex, Co
11-2021.00	Marketing Manager	En, As, Co

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-2022.00	Sales Manager	En, As, Co
11-2032.00	Public Relations	En, As, Ex
11-2033.00	Fundraising Manager	En, Co
11-3013.00	Security Manager	En, Co
11-3021.00	Computer & Information Systems Manager	En, Co, Lo
11-3031.00	Financial Managers	En, As, Co
11-3051.00	Industrial Production Manager	En, As, Co
11-3061.00	Purchasing Manager	En, As, Co
11-3071.01	Transportation, Storage & Distribution Manager	En, Co
11-3071.04	Supply Chain Manager	En, Co
11-3111.00	Compensation & Benefits Manager	En, Co, He
11-3121.00	Human Resources Manager	En, He, Co
11-3131.00	Training & Development Manager	En, As, He
11-9013.00	Farmers, Ranchers, and Other Agricultural Managers	En, Pr, Co
11-9021.00	Construction Manager	En, Pr, Co
11-9031.00	Education Administrator, Preschool & Childcare Center/Program	He, En, Co
11-9141.00	Property, Real Estate, & Community Association Manager	En, As, Co
11-9151.00	Social & Community Service Manager	En, As, He
11-9199.01	Regulatory Affairs Manager	En, As, Co
11-9199.02	Compliance Manager	Co, En, Pr
11-9199.08	Loss Prevention Manager	En, Co, St
11-9199.09	Wind Energy Operations Manager	En, Co, Pr
11-9199.10	Wind Energy Project Manager	En, Co, Inq
11-9199.11	Brownfield Redevelopment Specialist & Site Manager	En, Inq, Co
13-1081.00	Logistician	En, Co

Graduate Degree		
O*NET Code	Job Title	WP Code
11-1011.00	Chief Executive	En, As, Co
11-1011.03	Chief Sustainability Officer	En, Co, Inf
11-3031.01	Treasurer & Controller	Co, St, En
11-3031.03	Investment Fund Manager	En, As, Co
11-9032.00	Education Administrator, Elementary & Secondary School	En, He, Co
11-9033.00	Education Administrator, Postsecondary	En, Co, He
11-9041.00	Architectural & Engineering Manager	En, Pr, Lo
11-9111.00	Medical & Health Services Manager	En, Co, He

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9121.00	Natural Sciences Manager	En, Inq, Lo
13-1111.00	Management Analyst	Lo, En, Co

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> • AASA, The School Superintendents Association www.aasa.org/ 	<ul style="list-style-type: none"> • American Association of Healthcare Administrative Management www.aaham.org
<ul style="list-style-type: none"> • American Management Association www.amanet.org/ 	<ul style="list-style-type: none"> • American Society for Public Administration www.aspanet.org/
<ul style="list-style-type: none"> • American Society of Association Executives www.asaecenter.org/ 	<ul style="list-style-type: none"> • APICS - The Association for Operations Management www.ascm.org/
<ul style="list-style-type: none"> • Construction Management Association of America www.cmaanet.org/ 	<ul style="list-style-type: none"> • Financial Executives International www.financialexecutives.org/
<ul style="list-style-type: none"> • International Facility Management Association www.ifma.org/ 	<ul style="list-style-type: none"> • National Association of Corporate Directors www.nacdonline.org/
<ul style="list-style-type: none"> • National Management Association https://nma1.org/ 	<ul style="list-style-type: none"> • Society for Human Resource Management www.shrm.org/home
<ul style="list-style-type: none"> • The Law Office Management Association www.tloma.com/ 	

Notes

Machining & Mechanical Trades

Occupations in **Machining & Mechanical Trades** involve repairing mechanical and electrical equipment and operating, controlling, and setting up machines used to prepare, manufacture, and create materials. Responsibilities may include cutting, fitting, shaping, or printing materials, such as metal, paper, wood, and stone, according to required specifications. There are a wide variety of jobs in this field so look to combine your interest in this area with your other interests. Specialized training and apprenticeships are usually available for this type of work. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Skilled Trades	Teaching
Engineering	Interpersonal Confidence
Mathematics	Mediation & Persuasion
Creative Arts	
Physical Science	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

Minimal Education		
O*NET Code	Job Title	WP Code
45-4022.00	Logging Equipment Operator	Pr, Co, St
51-9022.00	Grinding & Polishing Worker, Hand	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
47-3013.00	Helper--Electrician	Pr, Co
49-3021.00	Automotive Body & Related Repairer	Pr
49-3022.00	Automotive Glass Installer & Repairer	Pr, Co, En
49-3043.00	Rail Car Repairer	Pr, Co, Lo
49-3053.00	Outdoor Power Equipment & Other Small Engine Mechanic	Pr, Co
49-3091.00	Bicycle Repairer	Pr, Co, Lo
49-3092.00	Recreational Vehicle Service Technician	Pr, Lo, Co
49-3093.00	Tire Repairer & Changer	Pr, Co
49-9011.00	Mechanical Door Repairer	Pr
49-9052.00	Telecommunications Line Installer & Repairer	Pr, En
49-9091.00	Coin, Vending, & Amusement Machine Servicer & Repairer	Pr, Co

High School Diploma		
O*NET Code	Job Title	WP Code
49-9098.00	Helper--Installation, Maintenance, & Repair Worker	Pr, Co, Lo
49-9099.01	Geothermal Technician	Pr, Co
51-1011.00	First-Line Supervisor of Production & Operating Workers	En, Pr, Co
51-2011.00	Aircraft Structure, Surfaces, Rigging, & Systems Assembler	Pr, Co, St
51-2021.00	Coil Winder, Taper, & Finisher	Pr, Co, Lo
51-2022.00	Electrical & Electronic Equipment Assembler	Pr, Co, St
51-2023.00	Electromechanical Equipment Assembler	Pr, Co, Lo
51-2031.00	Engine & Other Machine Assembler	Pr, Co, St
51-2092.00	Team Assembler	Pr, Co, En
51-3091.00	Food & Tobacco Roasting, Baking, & Drying Machine Operator & Tender	Pr, Co, St
51-3092.00	Food Batchmaker	Pr, Co, St
51-4021.00	Extruding & Drawing Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4022.00	Forging Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4023.00	Rolling Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4031.00	Cutting, Punching, & Press Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, St
51-4032.00	Drilling & Boring Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4033.00	Grinding, Lapping, Polishing, & Buffing Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr
51-4034.00	Lathe & Turning Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr, Lo, Co
51-4035.00	Milling & Planing Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4051.00	Metal-Refining Furnace Operator & Tender	Pr, Lo, Co
51-4052.00	Pourer & Caster, Metal	Pr, Co, St
51-4071.00	Foundry Mold & Coremaker	Pr, Co
51-4072.00	Molding, Coremaking, & Casting Machine Setter, Operator, & Tender, Metal & Plastic	Pr, Co, Lo
51-4081.00	Multiple Machine Tool Setter, Operator, & Tender, Metal & Plastic	Pr
51-4122.00	Welding, Soldering, & Brazing Machine Setter, Operator, & Tender	Pr, Co
51-4191.00	Heat Treating Equipment Setter, Operator, & Tender, Metal & Plastic	Pr, Co
51-4192.00	Layout Worker, Metal & Plastic	Pr, Co, Lo
51-4193.00	Plating & Coating Machine Setting, Operator, & Tender, Metal & Plastic	Pr, Co, St
51-4194.00	Tool Grinder, Filer, & Sharpener	Pr, Co
51-5113.00	Print Binding & Finishing Worker	Pr, Co, St
51-6042.00	Shoe Machine Operator & Tender	Pr, Co, St
51-6061.00	Textile Bleaching & Dyeing Machine Operator, & Tender	Pr
51-6062.00	Textile Cutting Machine Setter, Operator, & Tender	Pr, Co, St
51-6063.00	Textile Knitting & Weaving Machine Setter, Operator, & Tender	Pr, Co, St

High School Diploma		
O*NET Code	Job Title	WP Code
51-6064.00	Textile Winding, Twisting, & Drawing Out Machine Setter, Operator, & Tender	Pr, Co, St
51-6091.00	Extruding & Forming Machine Setter, Operator, & Tender, Synthetic & Glass Fibers	Pr
51-8013.00	Power Plant Operator	Pr, Co
51-9021.00	Crushing, Grinding, Polishing Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9032.00	Cutting & Slicing Machine Setter, Operator, & Tender	Pr, Co
51-9041.00	Extruding, Forming, Pressing, & Compacting Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9051.00	Furnace, Kiln, Oven, Drier, & Kettle Operator & Tender	Pr, Co, St
51-9111.00	Packaging & Filling Machine Operator & Tender	Pr, Co, St
51-9124.00	Coating, Painting, & Spraying Machine Setter, Operator, & Tender	Pr, Co, Lo
51-9141.00	Semiconductor Processor	Pr, Co, Lo
51-9191.00	Adhesive Bonding Machine Operator & Tender	Pr, Co, St
51-9192.00	Cleaning, Washing, & Metal Pickling Equipment Operator & Tender	Pr, Co
51-9193.00	Cooling & Freezing Equipment Operator & Tender	Pr, Co, Lo
51-9195.00	Molders, Shapers, and Casters, Except Metal and Plastic	Pr, Co, St
51-9196.00	Paper Goods Machine Setter, Operator, & Tender	Pr, Co, St
51-9197.00	Tire Builder	Pr, Co, St
53-3032.00	Heavy & Tractor-Trailer Truck Driver	Pr, Co
53-4011.00	Locomotive Engineer	Pr, Co
53-4022.00	Railroad Brake, Signal, & Switch Operators and Locomotive Firers	Pr, Co
53-5011.00	Sailor & Marine Oiler	Pr, Co
53-6051.07	Transportation Vehicle, Equipment & Systems Inspector	Pr, Co, Lo
53-7011.00	Conveyor Operator & Tender	Pr, Co
53-7031.00	Dredge Operator	Pr
53-7041.00	Hoist & Winch Operator	Pr, En, Co
53-7063.00	Machine Feeder & Offbearer	Pr, Co, St
53-7071.00	Gas Compressor & Gas Pumping Station Operator	Pr, Co, St
53-7072.00	Pump Operator	Pr, Co, Lo
53-7073.00	Wellhead Pumper	Pr, Co, Lo

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
11-3051.02	Geothermal Production Manager	En, Co
27-4011.00	Audio & Video Equipment Technician	Pr, Lo, Co
27-4012.00	Broadcast Technician	Pr, Co, St

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
47-2111.00	Electrician	Pr, Lo, Co
49-1011.00	First-Line Supervisor of Mechanics, Installers, & Repairers	En, Co, Pr
49-2021.00	Radio, Cellular, & Tower Equipment Installer & Repairer	Pr, Co
49-2022.00	Telecommunications Equipment Installer & Repairer	Pr, Lo, Co
49-2091.00	Avionics Technician	Pr, Lo, Co
49-2092.00	Electric Motor, Power Tool, & Related Repairer	Pr, Co, St
49-2093.00	Electrical & Electronics Installer & Repairer, Transportation Equipment	Pr, Co
49-2094.00	Electrical & Electronics Repairer, Commercial & Industrial Equipment	Pr, Lo, Co
49-2095.00	Electrical & Electronics Repairer, Powerhouse, Substation, & Relay	Pr, Co
49-2096.00	Electronic Equipment Installer & Repairer, Motor Vehicles	Pr, Lo, Co
49-2097.00	Electronic Home Entertainment Equipment Installer & Repairer	Pr, Co, St
49-3011.00	Aircraft Mechanic & Service Technician	Pr, Co, Lo
49-3023.00	Automotive Service Technicians and Mechanics	Pr, Lo
49-3031.00	Bus & Truck Mechanic & Diesel Engine Specialist	Pr, Co
49-3041.00	Farm Equipment Mechanic & Service Technician	Pr, Co, Lo
49-3042.00	Mobile Heavy Equipment Mechanic	Pr, Co
49-3051.00	Motorboat Mechanic & Service Technician	Pr, Co, Lo
49-3052.00	Motorcycle Mechanic	Pr
49-9012.00	Control & Valve Installer & Repairer	Pr, Co, Lo
49-9021.00	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Pr, Co, Lo
49-9031.00	Home Appliance Repairer	Pr, Co, Lo
49-9041.00	Industrial Machinery Mechanic	Pr, Lo, Co
49-9043.00	Maintenance Worker, Machinery	Pr, Co, Lo
49-9044.00	Millwright	Pr, Co, Lo
49-9051.00	Electrical Power-Line Installer & Repairer	Pr, Lo, Co
49-9061.00	Camera & Photographic Equipment Repairer	Pr, Co, Lo
49-9062.00	Medical Equipment Repairer	Pr, Lo, Co
49-9063.00	Musical Instrument Repairer & Tuner	Pr, Ex, Lo
49-9064.00	Watch Repairer	Pr, Co, Lo
49-9071.00	Maintenance & Repair Worker, General	Pr, Co, Lo
49-9081.00	Wind Turbine Service Technician	Pr, Co
49-9097.00	Signal & Track Switch Repairer	Pr, Co, St
51-2041.00	Structural Metal Fabricator & Fitter	Pr, Co, St
51-4041.00	Machinist	Pr, Co, Lo
51-4061.00	Model Maker, Metal & Plastic	Pr, Lo, Co
51-4062.00	Patternmaker, Metal & Plastic	Pr, Co, Lo
51-4111.00	Tool & Die Maker	Pr, Lo, Co

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
51-4121.00	Welders, Cutters, Solderers, and Brazers	Pr, Co
51-5111.00	Prepress Technician & Worker	Pr, Co, St
51-5112.00	Printing Press Operator	Pr, Co, St
51-8021.00	Stationary Engineer & Boiler Operator	Pr, Lo, Co
51-9082.00	Medical Appliance Technician	Pr, Lo, He
51-9161.00	Computer Numerically Controlled (CNC) Tool Operators	Pr, Co, St
53-2012.00	Commercial Pilot	Pr, Inf, En
53-5031.00	Ship Engineer	Pr, Co, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-3051.00	Industrial Production Manager	En, As, Co

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Public Power Association www.publicpower.org/ 	<ul style="list-style-type: none"> American Welding Society www.aws.org/
<ul style="list-style-type: none"> Association of Diesel Specialists https://diesel.org/ 	<ul style="list-style-type: none"> Automotive Service Association www.asashop.org/
<ul style="list-style-type: none"> Electronics Technicians Association International www.etai.org/ 	<ul style="list-style-type: none"> Fabricators & Manufacturers Association, International www.fmamfg.org/
<ul style="list-style-type: none"> Lighting & Sound America www.lightingandsoundamerica.com/ 	<ul style="list-style-type: none"> Mechanical Contractors Association of America www.mcaa.org/
<ul style="list-style-type: none"> Millwright Employers Association https://millwrightemployers.org/ 	<ul style="list-style-type: none"> Motor & Equipment Manufacturers Association www.mema.org/
<ul style="list-style-type: none"> National Association of Manufacturers www.nam.org/ 	<ul style="list-style-type: none"> National Tooling & Machining Association https://ntma.org/
<ul style="list-style-type: none"> Precision Machined Products Association www.pmpa.org/ 	<ul style="list-style-type: none"> Printing Industries of America www.printing.org/
<ul style="list-style-type: none"> Professional Aviation Maintenance Association www.pama.org/ 	<ul style="list-style-type: none"> Society of Automotive Engineers International www.sae.org/



Professional Organizations	
<ul style="list-style-type: none">• The Aluminium Association www.aluminium.org/	<ul style="list-style-type: none">• Truck & Engine Manufacturers Association www.truckandenginemanufacturers.org/
<ul style="list-style-type: none">• U.S. Tire Manufacturer Association www.ustires.org	<ul style="list-style-type: none">• United States Council for Automotive Research www.uscar.org

Notes

Primary Education

Occupations in **Primary Education** involve teaching and helping pre-school children and students in elementary schools. These educators teach the fundamentals for a broad range of subjects, including math, literacy, science, social studies, and art. They also promote the physical, mental, and social development of children. Most jobs require teacher education or post-secondary training in child development or early childhood education. To learn more about the occupations that make up this job group, search the complete O*NET listings at www.onetonline.org.

High Basic Interest Scales	Low Basic Interest Scales
Elementary Education	Physical Science
Social Service	Engineering
Teaching	Life Science
Office Work	
Personal Service	

Job Titles from O*NET

Below is a sample of related jobs. Browse this list and look for jobs you'd like to learn more about. The jobs are listed according to the educational level that may be required. The O*NET code and the Work Personality (WP) code associated with the job, if available, are included.

High School Diploma		
O*NET Code	Job Title	WP Code
39-9011.00	Childcare Worker	He, Ex

Vocational School Training or Associate's Degree		
O*NET Code	Job Title	WP Code
25-2011.00	Preschool Teacher	He, Ex
25-9042.00	Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education	He, Co, St
39-9011.00	Nanny	He, Ex, En

Bachelor's Degree		
O*NET Code	Job Title	WP Code
11-9031.00	Education Administrator, Preschool & Childcare Center/Program	He, En, Co
25-2012.00	Kindergarten Teacher	He, Ex
25-2021.00	Elementary School Teacher	He, Ex, Co
25-2051.00	Special Education Teacher, Preschool	He, Ex
25-2055.00	Special Education Teacher, Kindergarten	He, Ex

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Bachelor's Degree		
O*NET Code	Job Title	WP Code
25-2059.01	Adapted Physical Education Specialist	He, Pr

Graduate Degree		
O*NET Code	Job Title	WP Code
11-9032.00	Education Administrator, Elementary & Secondary School	En, He, Co
25-4022.00	Librarians and Media Collections Specialists	Co, He, En
25-9031.00	Instructional Coordinator	He, Inq, En

Professional Associations

There are a number of associations and organizations for people employed in this Job Group. These associations can provide valuable information on specific professions, including certification, education and training, professional development, current events, and career resources.

Professional Organizations	
<ul style="list-style-type: none"> American Association for Teaching & Curriculum www.aatc1994.org/ 	<ul style="list-style-type: none"> American Federation of Teachers www.aft.org/
<ul style="list-style-type: none"> American Montessori Society https://amshq.org/ 	<ul style="list-style-type: none"> Association for Childhood Education International https://ceinternational1892.org/
<ul style="list-style-type: none"> Council for Exceptional Children https://exceptionalchildren.org/ 	<ul style="list-style-type: none"> International Nanny Association https://nanny.org/
<ul style="list-style-type: none"> National Association for the Education of Young Children www.naeyc.org/ 	<ul style="list-style-type: none"> National Association of Special Education Teachers www.naset.org/
<ul style="list-style-type: none"> National Child Care Association www.nationalchildcare.org/ 	

Notes
