

**Appendix D: Professional Occupations
Education and Training Categories**

Code	Definition
1	First professional degree. Completion of the academic program usually requires at least 6 years of full-time equivalent academic study, including college study prior to entering the professional degree program.
2	Doctoral degree. Completion of the degree program usually requires at least 3 years of full-time equivalent academic work beyond the bachelor's degree.
3	Master's degree. Completion of the degree program usually requires 1 or 2 years of full-time equivalent study beyond the bachelor's degree.
4	Work experience, plus a bachelor's or higher degree. Most occupations in this category are managerial occupations that require experience in a related non-managerial position.
5	Bachelor's degree. Completion of the degree program generally requires at least 4 years but not more than 5 years of full-time equivalent academic work.

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
21-2011.00	Clergy	1
23-1011.00	Lawyers	1
29-1011.00	Chiropractors	1
29-1021.00	Dentists, General	1
29-1022.00	Oral and Maxillofacial Surgeons	1
29-1023.00	Orthodontists	1
29-1024.00	Prosthodontists	1
29-1041.00	Optometrists	1
29-1051.00	Pharmacists	1
29-1061.00	Anesthesiologists	1
29-1062.00	Family and General Practitioners	1
29-1063.00	Internists, General	1
29-1064.00	Obstetricians and Gynecologists	1
29-1065.00	Pediatricians, General	1
29-1066.00	Psychiatrists	1
29-1067.00	Surgeons	1
29-1081.00	Podiatrists	1

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
29-1131.00	Veterinarians	1
15-1011.00	Computer and Information Scientists, Research	2
19-1021.01	Biochemists	2
19-1021.02	Biophysicists	2
19-1022.00	Microbiologists	2
19-1042.00	Medical Scientists, Except Epidemiologists	2
19-2011.00	Astronomers	2
19-2012.00	Physicists	2
19-3031.00	Clinical, counseling, and school psychologists	2
19-3031.01	Educational Psychologists	2
19-3031.02	Clinical Psychologists	2
19-3031.03	Counseling Psychologists	2
25-1021.00	Computer Science Teachers, Postsecondary	2
25-1022.00	Mathematical Science Teachers, Postsecondary	2
25-1032.00	Engineering Teachers, Postsecondary	2
25-1041.00	Agricultural Sciences Teachers, Postsecondary	2
25-1042.00	Biological Science Teachers, Postsecondary	2
25-1043.00	Forestry and Conservation Science Teachers, Postsecondary	2
25-1052.00	Chemistry Teachers, Postsecondary	2
25-1054.00	Physics Teachers, Postsecondary	2
25-1071.00	Health Specialties Teachers, Postsecondary	2
25-1072.00	Nursing Instructors and Teachers, Postsecondary	2
25-1121.00	Art, Drama, and Music Teachers, Postsecondary	2
25-1191.00	Graduate Teaching Assistants	2
15-2021.00	Mathematicians	3
15-2031.00	Operations Research Analysts	3
15-2041.00	Statisticians	3
19-1041.00	Epidemiologists	3
19-2041.00	Environmental Scientists and Specialists, Including Health	3
19-2042.00	Geoscientists, Except Hydrologists and Geographers	3
19-2042.01	Geologists	3
19-2043.00	Hydrologists	3
19-3011.00	Economists	3
19-3021.00	Market Research Analysts	3
19-3022.00	Survey Researchers	3
19-3032.00	Industrial-Organizational Psychologists	3
19-3041.00	Sociologists	3
19-3051.00	Urban and Regional Planners	3
19-3091.01	Anthropologists	3

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
19-3091.02	Archeologists	3
19-3092.00	Geographers	3
19-3093.00	Historians	3
19-3094.00	Political Scientists	3
21-1011.00	Substance Abuse and Behavioral Disorder Counselors	3
21-1012.00	Educational, Vocational, and School Counselors	3
21-1013.00	Marriage and Family Therapists	3
21-1014.00	Mental Health Counselors	3
21-1015.00	Rehabilitation Counselors	3
21-1023.00	Mental Health and Substance Abuse Social Workers	3
21-1091.00	Health Educators	3
25-4011.00	Archivists	3
25-4012.00	Curators	3
25-4021.00	Librarians	3
25-9031.00	Instructional Coordinators	3
29-1121.00	Audiologists	3
29-1123.00	Physical Therapists	3
29-1127.00	Speech-Language Pathologists	3
11-1011.00	Chief Executives	4
11-1011.01	Government Service Executives	4
11-1011.02	Private Sector Executives	4
11-1021.00	General and Operations Managers	4
11-2011.00	Advertising and Promotions Managers	4
11-2021.00	Marketing Managers	4
11-2022.00	Sales Managers	4
11-2031.00	Public Relations Managers	4
11-3011.00	Administrative Services Managers	4
11-3021.00	Computer and Information Systems Managers	4
11-3031.00	Financial Managers	4
11-3031.01	Treasurers, Controllers, and Chief Financial Officers	4
11-3031.02	Financial Managers, Branch or Department	4
11-3040.00	Human Resources Managers	4
11-3041.00	Compensation and Benefits Managers	4
11-3042.00	Training and Development Managers	4
11-3061.00	Purchasing Managers	4
11-9011.00	Farm, Ranch, and Other Agricultural Managers	4
11-9011.01	Nursery and Greenhouse Managers	4
11-9011.02	Agricultural Crop Farm Managers	4
11-9011.03	Fish Hatchery Managers	4

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
11-9031.00	Education Administrators, Preschool and Child Care Center/Program	4
11-9032.00	Education Administrators, Elementary and Secondary School	4
11-9033.00	Education Administrators, Postsecondary	4
11-9041.00	Engineering Managers	4
11-9111.00	Medical and Health Services Managers	4
11-9121.00	Natural Sciences Managers	4
13-1011.00	Agents and Business Managers of Artists, Performers, and Athletes	4
13-1111.00	Management Analysts	4
15-2011.00	Actuaries	4
23-1021.00	Administrative Law Judges, Adjudicators, and Hearing Officers	4
23-1022.00	Arbitrators, Mediators, and Conciliators	4
23-1023.00	Judges, Magistrate Judges, and Magistrates	4
25-2023.00	Vocational Education Teachers, Middle School	4
25-2032.00	Vocational Education Teachers, Secondary School	4
27-1011.00	Art Directors	4
27-2012.00	Producers and Directors	4
27-2012.01	Producers	4
27-2012.02	Directors - Stage, Motion Pictures, Television, and Radio	4
27-2012.03	Program Directors	4
27-2012.04	Talent Directors	4
27-2012.05	Technical Directors/Managers	4
27-2041.00	Music Directors and Composers	4
27-2041.01	Music Directors	4
27-2041.02	Music Arrangers and Orchestrators	4
27-2041.03	Composers	4
27-3020.00	News Analysts, Reporters and Correspondents	4
27-3021.00	Broadcast News Analysts	4
27-3022.00	Reporters and Correspondents	4
11-3051.00	Industrial Production Managers	5
11-9021.00	Construction Managers	5
11-9141.00	Property, Real Estate, and Community Association Managers	5
11-9151.00	Social and Community Service Managers	5
13-1071.00	Employment, Recruitment, and Placement Specialists	5
13-1071.01	Employment Interviewers, Private or Public Employment Service	5

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
13-1071.02	Personnel Recruiters	5
13-1072.00	Compensation, Benefits, and Job Analysis Specialists	5
13-1073.00	Training and Development Specialists	5
13-1121.00	Meeting and Convention Planners	5
13-2011.01	Accountants	5
13-2011.02	Auditors	5
13-2031.00	Budget Analysts	5
13-2041.00	Credit Analysts	5
13-2051.00	Financial Analysts	5
13-2052.00	Personal Financial Advisors	5
13-2053.00	Insurance Underwriters	5
13-2061.00	Financial Examiners	5
13-2071.00	Loan Counselors	5
13-2072.00	Loan Officers	5
13-2081.00	Tax Examiners, Collectors, and Revenue Agents	5
15-1021.00	Computer Programmers	5
15-1031.00	Computer Software Engineers, Applications	5
15-1032.00	Computer Software Engineers, Systems Software	5
15-1051.00	Computer Systems Analysts	5
15-1061.00	Database Administrators	5
15-1071.00	Network and Computer Systems Administrators	5
15-1071.01	Computer Security Specialists	5
15-1081.00	Network Systems and Data Communications Analysts	5
17-1011.00	Architects, Except Landscape and Naval	5
17-1012.00	Landscape Architects	5
17-1021.00	Cartographers and Photogrammetrists	5
17-1022.00	Surveyors	5
17-2011.00	Aerospace Engineers	5
17-2021.00	Agricultural Engineers	5
17-2031.00	Biomedical Engineers	5
17-2041.00	Chemical Engineers	5
17-2051.00	Civil Engineers	5
17-2061.00	Computer Hardware Engineers	5
17-2071.00	Electrical Engineers	5
17-2072.00	Electronics Engineers, Except Computer	5
17-2081.00	Environmental Engineers	5
17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	5
17-2111.01	Industrial Safety and Health Engineers	5
17-2111.02	Fire-Prevention and Protection Engineers	5

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
17-2111.03	Product Safety Engineers	5
17-2112.00	Industrial Engineers	5
17-2121.00	Marine Engineers and Naval Architects	5
17-2121.01	Marine Engineers	5
17-2121.02	Marine Architects	5
17-2131.00	Materials Engineers	5
17-2141.00	Mechanical Engineers	5
17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers	5
17-2161.00	Nuclear Engineers	5
17-2171.00	Petroleum Engineers	5
19-1010.00	Agricultural and Food Scientists	5
19-1011.00	Animal Scientists	5
19-1012.00	Food Scientists and Technologists	5
19-1013.01	Plant Scientists	5
19-1013.02	Soil Scientists	5
19-1020.00	Biological Scientists	5
19-1020.01	Biologists	5
19-1023.00	Zoologists and Wildlife Biologists	5
19-1031.00	Conservation Scientists	5
19-1031.01	Soil Conservationists	5
19-1031.02	Range Managers	5
19-1031.03	Park Naturalists	5
19-1032.00	Foresters	5
19-2021.00	Atmospheric and Space Scientists	5
19-2031.00	Chemists	5
19-2032.00	Materials Scientists	5
21-1021.00	Child, Family, and School Social Workers	5
21-1022.00	Medical and Public Health Social Workers	5
21-1092.00	Probation Officers and Correctional Treatment Sp	5
21-2021.00	Directors, Religious Activities and Education	5
23-2092.00	Law Clerks	5
25-2012.00	Kindergarten Teachers, Except Special Education	5
25-2021.00	Elementary School Teachers, Except Special Education	5
25-2022.00	Middle School Teachers, Except Special and Vocational Education	5
25-2031.00	Secondary School Teachers, Except Special and Vocational Education	5
25-2041.00	Special Education Teachers, Preschool, Kindergarten and Elementary	5
25-2042.00	Special Education Teachers, Middle School	5

O*NET-SOC Code	O*NET-SOC Title	Education & Training Category Code
25-2043.00	Special Education Teachers, Secondary School	5
25-3011.00	Adult Literacy, Remedial Education, and GED Teachers and Instructors	5
25-4013.00	Museum Technicians and Conservators	5
25-9021.00	Farm and Home Management Advisors	5
27-1014.00	Multi-Media Artists and Animators	5
27-1021.00	Commercial and Industrial Designers	5
27-1022.00	Fashion Designers	5
27-1024.00	Graphic Designers	5
27-1025.00	Interior Designers	5
27-1027.00	Set and Exhibit Designers	5
27-1027.01	Set Designers	5
27-1027.02	Exhibit Designers	5
27-3031.00	Public Relations Specialists	5
27-3041.00	Editors	5
27-3042.00	Technical Writers	5
27-3043.00	Writers and Authors	5
27-4032.00	Film and Video Editors	5
29-1031.00	Dietitians and Nutritionists	5
29-1071.00	Physician Assistants	5
29-1122.00	Occupational Therapists	5
29-1125.00	Recreational Therapists	5
29-2011.00	Medical and Clinical Laboratory Technologists	5
29-2091.00	Orthotists and Prosthetists	5
29-9010.00	Occupational Health and Safety Specialists and Technicians	5
29-9091.00	Athletic Trainers	5
33-3021.03	Criminal Investigators and Special Agents	5
39-9032.00	Recreation Workers	5
41-3021.00	Insurance Sales Agents	5
41-3031.01	Sales Agents, Securities and Commodities	5
41-3031.02	Sales Agents, Financial Services	5
41-9031.00	Sales Engineers	5
53-2011.00	Airline Pilots, Copilots, and Flight Engineers	5

Appendix E: SPECIFIC VOCATIONAL PREPARATION (SVP)

Specific Vocational Preparation is defined as the amount of lapsed time required by a typical worker to learn the techniques, acquire the information, and develop the facility needed for average performance in a specific job-worker situation.

This training may be acquired in a school, work, military, institutional, or vocational environment. It does not include the orientation time required of a fully qualified worker to become accustomed to the special conditions of any new job. Specific vocational training includes: vocational education, apprenticeship training, in-plant training, on-the-job training, and essential experience in other jobs.

Specific vocational training includes training given in any of the following circumstances:

- a. Vocational education (high school; commercial or shop training; technical school; art school; and that part of college training which is organized around a specific vocational objective);
- b. Apprenticeship training (for apprenticeable jobs only);
- c. In-plant training (organized classroom study provided by an employer);
- d. On-the-job training (serving as learner or trainee on the job under the instruction of a qualified worker);
- e. Essential experience in other jobs (serving in less responsible jobs which lead to the higher grade job or serving in other jobs which qualify).

The following is an explanation of the various levels of specific vocational preparation:

<i>Level</i>	<i>Time</i>
1	Short demonstration only
2	Anything beyond short demonstration up to and including 1 month
3	Over 1 month up to and including 3 months
4	Over 3 months up to and including 6 months
5	Over 6 months up to and including 1 year
6	Over 1 year up to and including 2 years
7	Over 2 years up to and including 4 years
8	Over 4 years up to and including 10 years
9	Over 10 years

Note: The levels of this scale are mutually exclusive and do not overlap.

Source: *DICTIONARY OF OCCUPATIONAL TITLES (4th Ed., Rev. 1991) -- APPENDIX C*