

Appendix A to the Preamble Professional Recruitment Occupations

Appendix A to the Preamble-Professional Recruitment Occupations - Education and Training Categories by O*NET – SOC Occupation

Code	Education and training category
1	1st professional degree
2	Doctoral degree
3	Master's degree
4	Work experience plus bachelor's or higher degree
5	Bachelor's degree

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
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

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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
19-3091.02	Archeologists	3
19-3092.00	Geographers	3
19-3093.00	Historians	3
19-3094.00	Political Scientists	3

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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
11-9031.00	Education Administrators, Preschool and Child Care Center/Program	4
11-9032.00	Education Administrators, Elementary and Secondary School	4

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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
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

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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
17-2111.03	Product Safety Engineers	5
17-2112.00	Industrial Engineers	5
17-2121.00	Marine Engineers and Naval Architects	5

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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
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

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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

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Education & Training Category Code

- 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 nonmanagerial 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.