Labor Condition Application (LCA) Process
Supporting Documents

OEC/SOC Codes from the U.S. Department of Labor (DOL)
Common Codes for H1B employees at Carnegie Mellon

Explanation

These codes are listed here as a partial reference for hiring departments in assigning the proper
OEC/SOC codes to a position for which an H1B application will be made.

Hiring departments should include the proper OEC/SOC code on HR’s prevailing wage forms.
For a complete listing of these codes, visit the U.S. Department of Labor website:

http://workforcesecurity.doleta.gov/foreign/wageinfo.asp#oes

11-0000 Management Occupations

11-3021 Computer and Information Systems Managers
Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems
analysis, and computer programming. Exclude "Computer Specialists" (15-1011 through 15-1099).

Illustrative Examples: Data Processing Manager; Computer Programming Manager; Data Systems Manager

11-3022 Computer and Information System Managers, Non R&D (SIC 821 only)

11-3023 Computer and Information System Managers, R&D (SIC 821 only)

11-9033 Education Administrators, Postsecondary
Plan, direct, or coordinate research, instructional, student administration and services, and other educational
activities at postsecondary institutions, including universities, colleges, and junior and community colleges.

Illustrative Examples: Director of Student Affairs; Dean; Registrar

11-9041 Engineering Managers
Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in
these fields. Exclude "Natural Sciences Managers" (11-9121).

Illustrative Examples: Engineering Research Manager; Safety Director; Technical Director

11-9042 Engineering Managers, Non R&D (SIC 821 only)
11-9043 Engineering Managers, R&D (SIC 821 only)

11-9121 Natural Sciences Managers
Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and
research and development in these fields. Exclude "Engineering Managers" (11-9041) and "Computer and
Information Systems Managers" (11-3021).

Illustrative Examples: Geophysical Manager; Research and Development Director; Wildlife Manager

11-9122 Natural Sciences Managers, Non R&D (SIC 821 only)
11-9123 Natural Sciences Managers, R&D (SIC 821 only)

Updated on 3/2005
13-1111 Management Analysts
Conduct organizational studies and evaluations, design systems and procedures, conduct work simplifications and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Include program analysts and management consultants. Exclude "Computer Systems Analysts" (15-1051) and "Operations Research Analysts" (15-2031).

Illustrative Examples: Business Consultant; Industrial Analyst

15-0000 Computer and Mathematical Occupations

15-1000 Computer Specialists

15-1011 Computer and Information Scientists, Research
Conduct research into fundamental computer and information science as theorists, designers, or inventors. Solve or develop solutions to problems in the field of computer hardware and software.

15-1021 Computer Programmers
Convert project specifications and statements of problems and procedures to detailed logical flow charts for coding into computer language. Develop and write computer programs to store, locate, and retrieve specific documents, data, and information. May program web sites.

Illustrative Examples: Computer Programmer Aide; Mainframe Programmer; Systems Programmer

15-1022 Computer Programmers, Non R&D (SIC 821 only)
15-1023 Computer Programmers, R&D (SIC 821 only)

15-1031 Computer Software Engineers, Applications
Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. Exclude "Computer Hardware Engineers" (17-2061).

Illustrative Examples: Applications Developer; Programmer Analyst; Software Designer

15-1032 Computer Software Engineers, Systems Software
Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. Apply principles and techniques of computer science, engineering, and mathematical analysis.

Illustrative Example: EDP Systems Engineers

15-1041 Computer Support Specialists
Provide technical assistance to computer system users. Answer questions or resolve computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Exclude "Network and Computer Systems Administrators" (15-1071).

Illustrative Examples: Customer Support Analyst; Help Desk Technician; Work Station Support Specialist

15-1051 Computer Systems Analysts
Analyze science, engineering, business, and all other data processing problems for application to electronic data processing systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software. Exclude persons working primarily as "Engineers" (17-2011 through 17-2199), "Mathematicians" (15-2021), or "Scientists" (19-1011 through 19-3099). May supervise computer programmers.

Updated on 3/2005
Illustrative Examples: Health Systems Computer Analyst; Data Processing Systems Project Planner; Information Systems Consultant

15-1052 Computer Systems Analysts, Non R&D (SIC 821 only)  
15-1053 Computer Systems Analysts, R&D (SIC 821 only)

15-1061 Database Administrators  
Coordinate changes to computer databases, test and implement the database applying knowledge of database management systems. May plan, coordinate, and implement security measures to safeguard computer databases.  
Illustrative Examples: Automatic Data Processing Planner; Database Design Analyst; Database Security Administrator

15-1071 Network and Computer Systems Administrators  
Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software. Monitor network to ensure network availability to all system users and perform necessary maintenance to support network availability. May supervise other network support and client server specialists and plan, coordinate, and implement network security measures. Exclude "Computer Support Specialists" (15-1041).  
Illustrative Examples: LAN/WAN Administrator; Network Control Operator; Network Security Administrator

15-1081 Network Systems and Data Communications Analysts  
Analyze, design, test, and evaluate network systems, such as local area networks (LAN), wide area networks (WAN), Internet, intranet, and other data communications systems. Perform network modeling, analysis, and planning. Research and recommend network and data communications hardware and software. Include telecommunications specialists who deal with the interfacing of computer and communications equipment. May supervise computer programmers.  
Illustrative Examples: Internet Developer; Systems Integrator; Webmaster

15-1099 Computer Specialists, All Other  
All computer specialists not listed separately.  
Illustrative Example: Computer Laboratory Technician

15-2000 Mathematical Scientists

15-2021 Mathematicians  
Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve or direct solutions to problems in various fields by mathematical methods.  
Illustrative Examples: Algebraist; Cipher Expert; Cryptographer

15-2031 Operations Research Analysts  
Formulate and apply mathematical modeling and other optimizing methods using a computer to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May develop related software, service, or products. Frequently concentrates on collecting and analyzing data and developing decision support software. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation.  
Illustrative Examples: Procedure Analyst; Method Consultant; Standards Analyst

15-2041 Statisticians  
Engage in the development of mathematical theory or apply statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields, such as bio-

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statistics, agricultural statistics, business statistics, economic statistics, or other fields. Include mathematical statisticians.

Illustrative Examples: Biometrician; Sampling Expert; Statistical Analyst

15-2099 (SOC code only) Mathematical Scientists, All Other This occupation is not surveyed in OES. Code to 15-9099.

17-0000 Architecture and Engineering Occupations
17-1000 Architects, Surveyors, and Cartographers

17-1011 Architects, Except Landscape and Naval
Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.

Illustrative Examples: Architectural Designer; Building Consultant; Site Planner

17-1012 Landscape Architects
Plan and design land areas for such projects as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.

Illustrative Examples: Environmental Planner; Land Planner; Landscape Designer

17-2000 Engineers

17-2001 Engineers, Non R&D (SIC 821 only)
17-2002 Engineers, R&D (SIC 821 only)

17-2011 Aerospace Engineers
Perform a variety of engineering work in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.

Illustrative Examples: Aerodynamicist; Flight Test Engineer; Aeronautical Engineer

17-2031 Biomedical Engineers
Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.

Illustrative Example: Orthopedic Designer

17-2041 Chemical Engineers
Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.

Illustrative Examples: Absorption and Adsorption Engineer; Explosives Engineer; Fuels Engineer

17-2051 Civil Engineers
Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units. Include architectural, structural, traffic, ocean, and geo-technical engineers. Exclude "Hydrologists" (19-2043).

Illustrative Examples: Bridge Engineer; Construction Engineer; Concrete Engineer

Updated on 3/2005
17-2061 Computer Hardware Engineers
Research, design, develop, and test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. Exclude "Computer Software Engineers, Applications" (15-1031) and "Computer Software Engineers, Systems Software" (15-1032).

17-2071 Electrical Engineers
Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Exclude "Computer Hardware Engineers" (17-2061).

Illustrative Examples: Power Distribution Engineer; Illuminating Engineer; Relay Engineer

17-2072 Electronics Engineers, Except Computer
Research, design, develop, and test electronic components and systems for commercial, industrial, military, or scientific use utilizing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. Exclude "Computer Hardware Engineers" (17-2061).

Illustrative Examples: Communications Engineer; Circuit Design Engineer; Guidance and Control Systems Engineer

17-2081 Environmental Engineers
Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.

Illustrative Examples: Soil Engineer; Industrial Hygiene Engineer; Pollution Control Engineer

17-2112 Industrial Engineers
Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Exclude "Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).

Illustrative Examples: Packaging Engineer; Time Study Engineer; Plant Engineer

17-2131 Materials Engineers
Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Include those working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Include metallurgists and metallurgical engineers, ceramic engineers, and welding engineers.

Illustrative Examples: Ceramic Engineer; Corrosion Engineer; Metallurgical Engineer

17-2141 Mechanical Engineers
Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems.

Illustrative Examples: Combustion Engineer; Plant Equipment Engineer; Hydraulic Engineer

17-2161 Nuclear Engineers
Conduct research on nuclear engineering problems or apply principles and theory of nuclear science to problems concerned with release, control, and utilization of nuclear energy and nuclear waste disposal.

Illustrative Examples: Atomic Process Engineer; Radiation Engineer; Reactor Engineer

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17-3000 Drafters, Engineering, and Mapping Technicians

19-0000 Life, Physical, and Social Science Occupations

19-1000 Life Scientists

19-1001 Life Scientists, Non R&D (SIC 821 only)
19-1002 Life Scientists, R&D (SIC 821 only)

19-1021 Biochemists and Biophysicists
Study the chemical composition and physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. May conduct research to further understanding of the complex chemical combinations and reactions involved in metabolism, reproduction, growth, and heredity. May determine the effects of foods, drugs, sera, hormones, and other substances on tissues and vital processes of living organisms.

19-1022 Microbiologists
Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Include medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.

Illustrative Examples: Bacteriologist; Cytologist; Virologist

19-1029 (SOC code only) Biological Scientists, All Other This occupation is not surveyed in OES. Code to 19-1099.

19-1041 Epidemiologists
Investigate and describe the determinants and distribution of disease, disability, and other health outcomes and develop the means for prevention and control.

Illustrative Example: Malarialogist

19-1042 Medical Scientists, Except Epidemiologists
Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation or other research, production, technical writing, or related activities. Include medical scientists such as physicians, dentists, public health specialists, pharmacologists, and medical pathologists. Exclude practitioners who provide medical or dental care or dispense drugs.

Illustrative Examples: Cancer Researcher; Toxicologist; Virologist

19-1099 Life Scientists, All Other
All life scientists not listed separately.
Illustrative Examples: Biological Scientist, not specified; Paleobotanist; Geneticist

19-2000 Physical Scientists

19-2001 Physical Scientists, Non R&D (SIC 821 only)
19-2002 Physical Scientists, R&D (SIC 821 only)

19-2011 Astronomers
Observe, research, and interpret celestial and astronomical phenomena to increase basic knowledge and apply such information to practical problems.

19-2012 Physicists
Conduct research into the phases of physical phenomena, develop theories and laws on the basis of observation and experiments, and devise methods to apply laws and theories to industry and other fields.

Updated on 3/2005
Illustrative Examples: Fluid Dynamicist; Rheologist; Thermodynamicist

19-2021 Atmospheric and Space Scientists
Investigate atmospheric phenomena and interpret meteorological data gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Include weather analysts and forecasters whose functions require the detailed knowledge of a meteorologist.

Illustrative Examples: Climatologist; Meteorologist; Weather Forecaster

19-2031 Chemists
Conduct qualitative and quantitative chemical analyses or chemical experiments in laboratories for quality or process control or to develop new products or knowledge. Exclude "Geoscientists, Except Hydrologists and Geographers" (19-2042) and "Biochemists and Biophysicists" (19-1021).

Illustrative Examples: Inorganic Chemist; Chemical Analyst

19-2032 Materials Scientists
Research and study the structures and chemical properties of various natural and manmade materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications. Include glass scientists, ceramic scientists, metallurgical scientists, and polymer scientists.

19-2041 Environmental Scientists and Specialists, Including Health
Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilizing knowledge of various scientific disciplines may collect, synthesize, study, report, and take action based on data derived from measurements or observations of air, food, soil, water, and other sources. Exclude "Zoologists and Wildlife Biologists" (19-1023), "Conservation Scientists" (19-1031), "Forest and Conservation Technicians" (19-4093), "Fish and Game Wardens" (33-3031), and "Forest and Conservation Workers" (45-4011).

Illustrative Examples: Environmental Analyst; Water Pollution Specialist

19-2099 Physical Scientists, All Other
All physical scientists not listed separately.

19-3000 Social Scientists and Related Workers

19-3001 Social Scientists, Non R&D (SIC 821 only)
19-3002 Social Scientists, R&D (SIC 821 only)

19-3011 Economists
Conduct research, prepare reports, or formulate plans to aid in solution of economic problems arising from production and distribution of goods and services. May collect and process economic and statistical data using econometric and sampling techniques. Exclude "Market Research Analysts" (19-3021).

Illustrative Examples: Econometrician; Economic Research Analyst; Industrial Economist

19-3021 Market Research Analysts
Research market conditions in local, regional, or national areas to determine potential sales of a product or service. May gather information on competitors, prices, sales, and methods of marketing and distribution. May use survey results to create a marketing campaign based on regional preferences and buying habits.

Illustrative Examples: Advertising Analyst; Marketing Consultant; Marketing Forecaster

19-3032 Industrial-Organizational Psychologists

Updated on 3/2005
Apply principles of psychology to personnel, administration, management, sales, and marketing problems. Activities may include policy planning; employee screening, training and development; and organizational development and analysis. May work with management to reorganize the work setting to improve worker productivity.

*Illustrative Example: Engineering Psychologist*

**19-3093 Historians**
Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, and unpublished manuscripts, such as personal diaries and letters.

*Illustrative Examples: Genealogist; Historical Society Director*

**19-3094 Political Scientists**
Study the origin, development, and operation of political systems. Research a wide range of subjects, such as relations between the United States and foreign countries, the beliefs and institutions of foreign nations, or the politics of small towns or a major metropolis. May study topics, such as public opinion, political decision making, and ideology. May analyze the structure and operation of governments, as well as various political entities. May conduct public opinion surveys, analyze election results, or analyze public documents.

*Illustrative Examples: Political Analyst; Political Consultant*

**19-4000 Life, Physical, and Social Science Technicians**

**25-0000 Education, Training, and Library Occupations**

**25-1000 Postsecondary Teachers**

**25-1011 Business Teachers, Postsecondary**
Teach courses in business administration and management, such as accounting, finance, human resources, labor relations, marketing, and operations research. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Accounting Teacher; Marketing Teacher; Shorthand Teacher*

**25-1021 Computer Science Teachers, Postsecondary**
Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

**25-1022 Mathematical Science Teachers, Postsecondary**
Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Actuarial Science Teacher; Calculus Teacher; Geometry Teacher*

**25-1031 Architecture Teachers, Postsecondary**
Teach courses in architecture and architectural design, such as architectural environmental design, interior architecture/design, and landscape architecture. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Example: Landscape Architecture Teacher*

**25-1032 Engineering Teachers, Postsecondary**
Teach courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Include teachers of subjects, such as chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Include both teachers primarily engaged in
teaching and those who do a combination of both teaching and research. Exclude "Computer Science Teachers, Postsecondary" (25-1021).

Illustrative Examples: Aeronautics Engineering Teacher; Civil Engineering Teacher; Electrical Engineering Teacher

25-1042 Biological Science Teachers, Postsecondary
Teach courses in biological sciences. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Illustrative Examples: Bacteriology Teacher; Biochemistry Teacher; Genetics Teacher

25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
Teach courses in the physical sciences, except chemistry and physics. Include both teachers primarily engaged in teaching, and those who do a combination of both teaching and research.

Illustrative Examples: Climatology Teacher; Geology Teacher; Oceanography Teacher

25-1052 Chemistry Teachers, Postsecondary
Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include instruction in the methods of qualitative and quantitative chemical analysis. Include both teachers primarily engaged in teaching, and those who do a combination of both teaching and research. Exclude "Biological Science Teachers, Postsecondary" (25-1042) who teach biochemistry.

Illustrative Examples: Food Technology Teacher; Pharmacognosy Teacher

25-1053 Environmental Science Teachers, Postsecondary
Teach courses in environmental science. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

25-1054 Physics Teachers, Postsecondary
Teach courses pertaining to the laws of matter and energy. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Illustrative Examples: Aerodynamics Teacher; Ballistics Teacher; Thermodynamics Teacher

25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
Teach courses pertaining to the culture and development of an area (e.g., Latin America), an ethnic group, or any other group (e.g., women's studies, urban affairs). Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Illustrative Example: Ethnology Teacher

25-1063 Economics Teachers, Postsecondary
Teach courses in economics. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Illustrative Examples: Agricultural Economics Teacher; Industrial Economics Teacher

25-1065 Political Science Teachers, Postsecondary
Teach courses in political science, international affairs, and international relations. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

Illustrative Examples: Government Teacher; International Relations Teacher; Public Policy Teacher

25-1066 Psychology Teachers, Postsecondary
Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Child Development Teacher; Human Relations Teacher; Applied Psychology Teacher*

25-1067 Sociology Teachers, Postsecondary
Teach courses in sociology. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

25-1121 Art, Drama, and Music Teachers, Postsecondary
Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Photography Teacher; Piano Teacher; Music Director*

5-1122 Communications Teachers, Postsecondary
Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Journalism Teacher; Public Speaking Teacher*

25-1123 English Language and Literature Teachers, Postsecondary
Teach courses in English language and literature, including linguistics and comparative literature. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Classics Teacher; Etymology Teacher; Creative Writing Teacher*

25-1124 Foreign Language and Literature Teachers, Postsecondary
Teach courses in foreign (i.e., other than English) languages and literature. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Arabic Teacher; Russian Teacher; Spanish Teacher*

25-1125 History Teachers, Postsecondary
Teach courses in human history and historiography. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

25-1126 Philosophy and Religion Teachers, Postsecondary
Teach courses in philosophy, religion, and theology. Include both teachers primarily engaged in teaching and those who do a combination of both teaching and research.

*Illustrative Examples: Divinity Teacher; Metaphysics Teacher; Theology Teacher*

25-1191 Graduate Teaching Assistants
Assist department chairperson, faculty members, or other professional staff members in college or university by performing teaching or teaching-related duties, such as teaching lower level courses, developing teaching materials, preparing and giving examinations, and grading examinations or papers. Graduate assistants must be enrolled in a graduate school program. Graduate assistants who primarily perform non-teaching duties, such as laboratory research, should be reported in the occupational category related to the work performed.

25-9000 Other Education, Training, and Library Occupations

25-9031 Instructional Coordinators
Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses. Include educational consultants and specialists, and instructional material directors.

Illustrative Examples: Curriculum Specialist; Director of Instructional Materials; Educational Consultant

27-2000 Entertainers and Performers, Sports and Related Workers

27-2012 Producers and Directors
Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of guests, set design, sound, special effects, and choreography.

Illustrative Examples: Independent Film Maker; Stage Manager; Program Arranger

27-2041 Music Directors and Composers
Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, choirs, and glee clubs. Include arrangers, composers, choral directors, and orchestrators.

Illustrative Examples: Choirmaster; Orchestra Conductor

27-2042 Musicians and Singers
Play one or more musical instruments or entertain by singing songs in recital, in accompaniment, or as a member of an orchestra, band, or other musical group. Musical performers may entertain on-stage, radio, TV, film, video, or record in studios. Exclude "Dancers" (27-2031).

Illustrative Examples: Cantor; Church Organist; Instrumentalist