

Labor Market Estimating Conference
Executive Summary
July 14, 2023

The Labor Market Estimating Conference (LMEC) met on July 14, 2023 to discuss and adopt official information pursuant to s. 216.136, F.S. as amended by Chapter 2023-81, Laws of Florida. The cumulative impact of the law changes made during the 2023 Session charge the LMEC with providing long-term strategic direction regarding at-risk areas of Florida’s labor market. The objective of the meeting was to focus on these areas of concern. With this in mind, the LMEC reviewed two products that were both introduced for the first time.

1. Occupational Areas of Concern (by educational requirement)

These occupations were identified by comparing occupational supply and demand in the 10th year of the forecast to determine where projected demand exceeds expected supply by more than 10%. Essentially, this condition means that: (1) demand exceeds supply currently and will continue to do so in the future, or (2) the growth in future demand will outpace the likely labor supply for that occupation. These findings were produced by a model run that simulated each occupation’s employment supply and demand trajectories over the forecast period. The overall methodology:

- Used current occupational shares of the labor supply against the forecast adopted by the Florida Economic Estimating Conference for all future years.
- Selected a base year of potential demand from a maximum of five nonconsecutive years, using the assumption that demand must equal or exceed filled jobs. The base was then grown by various growth rates (predominately population-driven).

Although, some occupations have both limited supply and demand, the analysis found that there is reason to believe that a significant gap in supply will exist for 101 out of 832 discrete occupations (12.1%). Note that evolving or emerging trends have yet to be addressed. As such, this analysis does not alter the existing economic structure, meaning the results represent foundational imbalances that would be expected to persist into the future, absent intervention.

CONFERENCE ACTION: *Officially adopted 101 discrete occupations as “Statewide Occupational Areas of Concern,” as well as the methodology for lists by Workforce Region that may differ from the statewide list. See Conference Products for the adopted lists.*

2. Critical Occupational Groups of Concern

The 101 occupational areas of concern were further organized by occupational group. By group, the demand for those occupations in the 10th year of the forecast was then compared to the total statewide demand for all occupations. By percentage of demand represented by the occupational areas of concern, two groups stand out: (1) Healthcare Practitioners and Technical Occupations with occupational areas of concern that represent 3.4% of statewide demand in that year; and (2) Healthcare Support Occupations with occupational areas of concern that represent 2.1% of statewide demand in that year. These occupational groups are particularly appropriate for this designation because the scopes of

practice for the underlying occupations are rapidly evolving with further changes expected over the next decade, making the precise job responsibilities more fluid and harder to predict.

CONFERENCE ACTION: *The methodology and two proposed “Critical Occupational Groups of Concern” for healthcare were discussed, but official action was postponed until the next meeting.*

A second conference will be scheduled during the summer 2023 conference season to address occupational wages and critical occupational groups of concern.

Statewide Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
No formal educational credential	27-1019	Artists and Related Workers, All Other
	27-2031	Dancers
	35-3041	Food Servers, Nonrestaurant
	37-2019	Building Cleaning Workers, All Other
	37-3019	Grounds Maintenance Workers, All Other
	39-3021	Motion Picture Projectionists
	39-3031	Ushers, Lobby Attendants, and Ticket Takers
	41-9011	Demonstrators and Product Promoters
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
	47-3016	Helpers--Roofers
	47-5013	Service Unit Operators, Oil and Gas
	47-5051	Rock Splitters, Quarry
	51-6052	Tailors, Dressmakers, and Custom Sewers
	53-5011	Sailors and Marine Oilers
	53-6021	Parking Attendants
	53-7041	Hoist and Winch Operators
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand
High school diploma or equivalent	11-9071	Gambling Managers
	21-1094	Community Health Workers
	27-1023	Floral Designers
	27-2023	Umpires, Referees, and Other Sports Officials
	27-2032	Choreographers
	27-4021	Photographers
	29-2092	Hearing Aid Specialists
	31-1120	Home Health and Personal Care Aides
	33-3011	Bailiffs
	37-3013	Tree Trimmers and Pruners
	39-3011	Gambling Dealers
	39-3093	Locker Room, Coatroom, and Dressing Room Attendants
	39-4021	Funeral Attendants
	39-6012	Concierges
	39-7010	Tour and Travel Guides
	39-9041	Residential Advisors
	41-3041	Travel Agents
	43-2011	Switchboard Operators, Including Answering Service
	43-3041	Gambling Cage Workers
	43-4111	Interviewers, Except Eligibility and Loan
	47-2171	Reinforcing Iron and Rebar Workers
	47-5081	Helpers--Extraction Workers
	49-9011	Mechanical Door Repairers
	51-2041	Structural Metal Fabricators and Fitters
	51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
	51-6092	Fabric and Apparel Patternmakers
	51-7011	Cabinetmakers and Bench Carpenters
	51-7041	Sawing Machine Setters, Operators, and Tenders, Wood
	51-7099	Woodworkers, All Other
	51-8091	Chemical Plant and System Operators
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders
	51-9111	Packaging and Filling Machine Operators and Tenders
	51-9194	Etchers and Engravers
53-4011	Locomotive Engineers	
Postsecondary nondegree award	29-2061	Licensed Practical and Licensed Vocational Nurses
	31-1131	Nursing Assistants
	31-9011	Massage Therapists
	35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers
	49-2097	Audiovisual Equipment Installers and Repairers
	51-4111	Tool and Die Makers
	53-5021	Captains, Mates, and Pilots of Water Vessels
	53-5031	Ship Engineers
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
	27-4012	Broadcast Technicians
	29-2031	Cardiovascular Technologists and Technicians
	29-2033	Nuclear Medicine Technologists
	29-2035	Magnetic Resonance Imaging Technologists
	29-2051	Dietetic Technicians

Educational Requirement	SOC Code	SOC Title
Bachelor's degree	11-1011	Chief Executives
	11-2011	Advertising and Promotions Managers
	17-1012	Landscape Architects
	17-1021	Cartographers and Photogrammetrists
	17-2031	Bioengineers and Biomedical Engineers
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers
	19-1023	Zoologists and Wildlife Biologists
	19-1031	Conservation Scientists
	19-2042	Geoscientists, Except Hydrologists and Geographers
	19-4021	Biological Technicians
	21-2099	Religious Workers, All Other
	25-4013	Museum Technicians and Conservators
	27-1027	Set and Exhibit Designers
	27-1029	Designers, All Other
	27-3011	Broadcast Announcers and Radio Disc Jockeys
	29-1125	Recreational Therapists
	29-1129	Therapists, All Other
	29-1141	Registered Nurses
Master's degree	19-3011	Economists
	19-3039	Psychologists, All Other
	25-4011	Archivists
	25-4012	Curators
	29-1071	Physician Assistants
	29-1127	Speech-Language Pathologists
	29-1151	Nurse Anesthetists
29-1171	Nurse Practitioners	
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary
	25-1053	Environmental Science Teachers, Postsecondary
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary
	25-1069	Social Sciences Teachers, Postsecondary, All Other
	25-1122	Communications Teachers, Postsecondary
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary
	25-1199	Postsecondary Teachers, All Other
	29-1215	Family Medicine Physicians

Summary of Results

Local Workforce Development Boards		Occupational Areas of Concern
Workforce Region 1	CareerSource Escarosa	78
Workforce Region 2	CareerSource Okaloosa Walton	93
Workforce Region 3	CareerSource Chipola	28
Workforce Region 4	CareerSource Gulf Coast	52
Workforce Region 5	CareerSource Capital Region	60
Workforce Region 6	CareerSource North Florida	26
Workforce Region 7	CareerSource Florida Crown	37
Workforce Region 8	CareerSource Northeast Florida	149
Workforce Region 9	CareerSource North Central Florida	71
Workforce Region 10	CareerSource Citrus Levy Marion	80
Workforce Region 11	CareerSource Flagler Volusia	95
Workforce Region 12	CareerSource Central Florida	201
Workforce Region 13	CareerSource Brevard	85
Workforce Region 14	CareerSource Pinellas	56
Workforce Region 15	CareerSource Tampa Bay	143
Workforce Region 16	CareerSource Pasco Hernando	127
Workforce Region 17	CareerSource Polk	170
Workforce Region 18	CareerSource Suncoast	156
Workforce Region 19	CareerSource Heartland	30
Workforce Region 20	CareerSource Research Coast	120
Workforce Region 21	CareerSource Palm Beach County	90
Workforce Region 22	CareerSource Broward	80
Workforce Region 23	CareerSource South Florida	88
Workforce Region 24	CareerSource Southwest Florida	157

Workforce Region 1 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	39-5093	Shampooers	
	41-9011	Demonstrators and Product Promoters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	21-1094	Community Health Workers
27-1023		Floral Designers	
27-2032		Choreographers	
27-4021		Photographers	
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
31-2012		Occupational Therapy Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194		Etchers and Engravers	
Postsecondary nondegree award		29-2061	Licensed Practical and Licensed Vocational Nurses
		31-1131	Nursing Assistants
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2097	Audiovisual Equipment Installers and Repairers	
	53-5031	Ship Engineers	
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians	
	19-4031	Chemical Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
Bachelor's degree	29-2051	Dietetic Technicians	
	11-1011	Chief Executives	
	17-2161	Nuclear Engineers	
	19-4021	Biological Technicians	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	Master's degree	19-3039	Psychologists, All Other
19-3093		Historians	
25-4011		Archivists	
25-4012		Curators	
29-1071		Physician Assistants	
29-1151		Nurse Anesthetists	
Doctoral or professional degree	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
29-1215	Family Medicine Physicians		

Workforce Region 2 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	33-9091	Crossing Guards and Flaggers	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-3054	Taxi Drivers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		11-9081	Lodging Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
27-4021		Photographers	
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
51-2041		Structural Metal Fabricators and Fitters	
Some college, no degree		51-3092	Food Batchmakers
	51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
	51-5112	Printing Press Operators	
	51-6092	Fabric and Apparel Patternmakers	
	51-7011	Cabinetmakers and Bench Carpenters	
	51-7099	Woodworkers, All Other	
	51-8091	Chemical Plant and System Operators	
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	
	51-9111	Packaging and Filling Machine Operators and Tenders	
	51-9194	Etchers and Engravers	
	51-9198	Helpers--Production Workers	
	Postsecondary nondegree award	43-4151	Order Clerks
		29-2061	Licensed Practical and Licensed Vocational Nurses
		31-1131	Nursing Assistants
		31-9011	Massage Therapists
35-2013		Cooks, Private Household	
39-5012		Hairdressers, Hairstylists, and Cosmetologists	
49-2022		Telecommunications Equipment Installers and Repairers, Except Line Installers	
49-2097		Audiovisual Equipment Installers and Repairers	
53-5021		Captains, Mates, and Pilots of Water Vessels	
53-5031		Ship Engineers	
Associate's degree	17-3026	Industrial Engineering Technologists and Technicians	
	17-3027	Mechanical Engineering Technologists and Technicians	
	19-4031	Chemical Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
	29-2051	Dietetic Technicians	
	49-2091	Avionics Technicians	
	Bachelor's degree	11-1011	Chief Executives
11-9039		Education Administrators, All Other	
17-1012		Landscape Architects	
17-2151		Mining and Geological Engineers, Including Mining Safety Engineers	
19-1023		Zoologists and Wildlife Biologists	
19-4021		Biological Technicians	
25-2021		Elementary School Teachers, Except Special Education	
25-4013		Museum Technicians and Conservators	
27-1027		Set and Exhibit Designers	
27-1029		Designers, All Other	
29-1129		Therapists, All Other	
29-1141		Registered Nurses	
Master's degree		19-3039	Psychologists, All Other
		19-3093	Historians
		19-3094	Political Scientists
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
	29-1127	Speech-Language Pathologists	
	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	Doctoral or professional degree	19-3033	Clinical and Counseling Psychologists
25-1011		Business Teachers, Postsecondary	
25-1069		Social Sciences Teachers, Postsecondary, All Other	
25-1122		Communications Teachers, Postsecondary	
25-1199		Postsecondary Teachers, All Other	
29-1214		Emergency Medicine Physicians	
29-1215		Family Medicine Physicians	
29-1221		Pediatricians, General	

Workforce Region 3 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
High school diploma or equivalent	27-2023	Umpires, Referees, and Other Sports Officials	
	27-4021	Photographers	
	31-1120	Home Health and Personal Care Aides	
	33-3011	Bailiffs	
	37-3013	Tree Trimmers and Pruners	
	39-3011	Gambling Dealers	
	39-6012	Concierges	
	39-7010	Tour and Travel Guides	
	39-9041	Residential Advisors	
	41-3041	Travel Agents	
	47-2171	Reinforcing Iron and Rebar Workers	
	51-2041	Structural Metal Fabricators and Fitters	
	Postsecondary nondegree award	35-2013	Cooks, Private Household
		Associate's degree	17-3025
	27-4012		Broadcast Technicians
29-2051	Dietetic Technicians		
Bachelor's degree	27-1029	Designers, All Other	
	29-1129	Therapists, All Other	
Master's degree	25-4012	Curators	
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	

Workforce Region 4 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
No formal educational credential	37-2019	Building Cleaning Workers, All Other
	37-3019	Grounds Maintenance Workers, All Other
	41-9011	Demonstrators and Product Promoters
	47-3016	Helpers--Roofers
	51-6052	Tailors, Dressmakers, and Custom Sewers
	53-5011	Sailors and Marine Oilers
	53-6021	Parking Attendants
High school diploma or equivalent	21-1094	Community Health Workers
	27-4021	Photographers
	31-1120	Home Health and Personal Care Aides
	33-3011	Bailiffs
	37-3013	Tree Trimmers and Pruners
	39-3011	Gambling Dealers
	39-3093	Locker Room, Coatroom, and Dressing Room Attendants
	39-6012	Concierges
	39-7010	Tour and Travel Guides
	39-9041	Residential Advisors
	41-3041	Travel Agents
	43-3041	Gambling Cage Workers
	43-4111	Interviewers, Except Eligibility and Loan
	47-2171	Reinforcing Iron and Rebar Workers
	51-2041	Structural Metal Fabricators and Fitters
	51-7099	Woodworkers, All Other
	51-8091	Chemical Plant and System Operators
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders
51-9111	Packaging and Filling Machine Operators and Tenders	
Postsecondary nondegree award	31-1131	Nursing Assistants
	35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2097	Audiovisual Equipment Installers and Repairers
	53-5021	Captains, Mates, and Pilots of Water Vessels
	53-5031	Ship Engineers
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
	19-4044	Hydrologic Technicians
	27-4012	Broadcast Technicians
	29-2035	Magnetic Resonance Imaging Technologists
	29-2051	Dietetic Technicians
Bachelor's degree	19-1023	Zoologists and Wildlife Biologists
	27-1027	Set and Exhibit Designers
	27-1029	Designers, All Other
	29-1129	Therapists, All Other
	29-1141	Registered Nurses
Master's degree	19-3039	Psychologists, All Other
	25-4011	Archivists
	25-4012	Curators
	29-1071	Physician Assistants
	29-1151	Nurse Anesthetists
	29-1171	Nurse Practitioners
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary
	25-1069	Social Sciences Teachers, Postsecondary, All Other
	25-1122	Communications Teachers, Postsecondary
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary

Workforce Region 5 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
High school diploma or equivalent	21-1094	Community Health Workers	
	27-2023	Umpires, Referees, and Other Sports Officials	
	27-2032	Choreographers	
	27-4021	Photographers	
	31-1120	Home Health and Personal Care Aides	
	31-2012	Occupational Therapy Aides	
	33-3011	Bailiffs	
	37-3013	Tree Trimmers and Pruners	
	39-6012	Concierges	
	39-7010	Tour and Travel Guides	
	39-9041	Residential Advisors	
	41-3041	Travel Agents	
	43-2011	Switchboard Operators, Including Answering Service	
	43-3041	Gambling Cage Workers	
	47-2171	Reinforcing Iron and Rebar Workers	
	51-2041	Structural Metal Fabricators and Fitters	
	51-6092	Fabric and Apparel Patternmakers	
	51-7099	Woodworkers, All Other	
	51-8091	Chemical Plant and System Operators	
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	
	51-9194	Etchers and Engravers	
	Postsecondary nondegree award	31-1131	Nursing Assistants
		35-2013	Cooks, Private Household
49-2097		Audiovisual Equipment Installers and Repairers	
53-5031		Ship Engineers	
Associate's degree		17-3025	Environmental Engineering Technologists and Technicians
	19-4044	Hydrologic Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
	29-2051	Dietetic Technicians	
Bachelor's degree	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	
	19-1031	Conservation Scientists	
	19-4021	Biological Technicians	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
Master's degree	19-3039	Psychologists, All Other	
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
25-1199	Postsecondary Teachers, All Other		

Workforce Region 6 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
No formal educational credential	37-2019	Building Cleaning Workers, All Other
	41-9011	Demonstrators and Product Promoters
	47-3016	Helpers--Roofers
	51-6052	Tailors, Dressmakers, and Custom Sewers
	53-5011	Sailors and Marine Oilers
	53-6021	Parking Attendants
High school diploma or equivalent	21-1094	Community Health Workers
	27-2023	Umpires, Referees, and Other Sports Officials
	31-1120	Home Health and Personal Care Aides
	33-3011	Bailiffs
	37-3013	Tree Trimmers and Pruners
	39-3011	Gambling Dealers
	39-6012	Concierges
	39-7010	Tour and Travel Guides
	39-9041	Residential Advisors
	41-3041	Travel Agents
	47-2171	Reinforcing Iron and Rebar Workers
	51-2041	Structural Metal Fabricators and Fitters
	51-8091	Chemical Plant and System Operators
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders
	Postsecondary nondegree award	35-2013
Bachelor's degree	27-1029	Designers, All Other
	29-1129	Therapists, All Other
Master's degree	25-4012	Curators
	29-1171	Nurse Practitioners
Doctoral or professional degree	25-1069	Social Sciences Teachers, Postsecondary, All Other

Workforce Region 7 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
High school diploma or equivalent	27-2023	Umpires, Referees, and Other Sports Officials	
	27-4021	Photographers	
	31-1120	Home Health and Personal Care Aides	
	33-3011	Bailiffs	
	37-3013	Tree Trimmers and Pruners	
	39-6012	Concierges	
	39-7010	Tour and Travel Guides	
	39-9041	Residential Advisors	
	41-3041	Travel Agents	
	47-2171	Reinforcing Iron and Rebar Workers	
	51-2041	Structural Metal Fabricators and Fitters	
	51-4194	Tool Grinders, Filers, and Sharpeners	
	51-7099	Woodworkers, All Other	
	51-8091	Chemical Plant and System Operators	
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	
	Postsecondary nondegree award	31-1131	Nursing Assistants
		35-2013	Cooks, Private Household
51-4111		Tool and Die Makers	
Bachelor's degree	11-1011	Chief Executives	
	27-1029	Designers, All Other	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
Master's degree	19-3039	Psychologists, All Other	
	25-4012	Curators	
	29-1151	Nurse Anesthetists	
Doctoral or professional degree	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1215	Family Medicine Physicians	

Workforce Region 8 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	33-9091	Crossing Guards and Flaggers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	41-9012	Models	
	45-2091	Agricultural Equipment Operators	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	47-2043	Floor Sanders and Finishers	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		11-9081	Lodging Managers
		19-5012	Occupational Health and Safety Technicians
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
		27-4099	Media and Communication Equipment Workers, All Other
		29-2092	Hearing Aid Specialists
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
33-9011		Animal Control Workers	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4012		Crematory Operators	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
49-9011		Mechanical Door Repairers	
49-9063		Musical Instrument Repairers and Tuners	
49-9069		Precision Instrument and Equipment Repairers, All Other	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4192		Layout Workers, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-6093		Upholsterers	
51-7011		Cabinetmakers and Bench Carpenters	
51-7041		Sawing Machine Setters, Operators, and Tenders, Wood	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-8092		Gas Plant Operators	
51-8099		Plant and System Operators, All Other	
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders		
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders		
51-9111	Packaging and Filling Machine Operators and Tenders		
51-9194	Etchers and Engravers		
51-9197	Tire Builders		
51-9198	Helpers--Production Workers		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians		
53-4011	Locomotive Engineers		
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers		
53-7031	Dredge Operators		
Some college, no degree	43-4151	Order Clerks	

Workforce Region 8 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
Postsecondary nondegree award	27-4011	Audio and Video Technicians	
	29-2061	Licensed Practical and Licensed Vocational Nurses	
	31-1131	Nursing Assistants	
	31-9011	Massage Therapists	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2097	Audiovisual Equipment Installers and Repairers	
	51-4111	Tool and Die Makers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5022	Motorboat Operators	
	53-5031	Ship Engineers	
	Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
17-3026		Industrial Engineering Technologists and Technicians	
17-3027		Mechanical Engineering Technologists and Technicians	
19-4031		Chemical Technicians	
27-4012		Broadcast Technicians	
29-2031		Cardiovascular Technologists and Technicians	
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
Bachelor's degree	29-2051	Dietetic Technicians	
	11-1011	Chief Executives	
	11-2011	Advertising and Promotions Managers	
	11-9161	Emergency Management Directors	
	17-1012	Landscape Architects	
	17-1021	Cartographers and Photogrammetrists	
	17-2031	Bioengineers and Biomedical Engineers	
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-1031	Conservation Scientists	
	19-1032	Foresters	
	19-2021	Atmospheric and Space Scientists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-2043	Hydrologists	
	19-4021	Biological Technicians	
	19-4061	Social Science Research Assistants	
	21-2099	Religious Workers, All Other	
	25-2021	Elementary School Teachers, Except Special Education	
	25-4013	Museum Technicians and Conservators	
	27-1022	Fashion Designers	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	33-3031	Fish and Game Wardens	
	43-9081	Proofreaders and Copy Markers	
	43-9111	Statistical Assistants	
	45-2011	Agricultural Inspectors	
	Master's degree	19-3011	Economists
		19-3039	Psychologists, All Other
		25-4011	Archivists
25-4012		Curators	
29-1071		Physician Assistants	
29-1127		Speech-Language Pathologists	
29-1151		Nurse Anesthetists	
29-1161		Nurse Midwives	
29-1171		Nurse Practitioners	
Doctoral or professional degree		23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers
	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1022	Oral and Maxillofacial Surgeons	
	29-1029	Dentists, All Other Specialists	
	29-1181	Audiologists	
	29-1213	Dermatologists	
	29-1215	Family Medicine Physicians	
	29-1217	Neurologists	

Workforce Region 9 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	41-9012	Models	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	High school diploma or equivalent	21-1094	Community Health Workers
27-2023		Umpires, Referees, and Other Sports Officials	
27-2032		Choreographers	
27-4021		Photographers	
31-1120		Home Health and Personal Care Aides	
31-2012		Occupational Therapy Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
47-5099		Extraction Workers, All Other	
51-2041		Structural Metal Fabricators and Fitters	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9194		Etchers and Engravers	
Postsecondary nondegree award		29-2061	Licensed Practical and Licensed Vocational Nurses
	31-1131	Nursing Assistants	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2097	Audiovisual Equipment Installers and Repairers	
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
Bachelor's degree	29-2051	Dietetic Technicians	
	11-1011	Chief Executives	
	17-2161	Nuclear Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-1031	Conservation Scientists	
	19-4021	Biological Technicians	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	Master's degree	19-3039	Psychologists, All Other
		19-3093	Historians
		25-4011	Archivists
25-4012		Curators	
29-1071		Physician Assistants	
Doctoral or professional degree	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	29-9092	Genetic Counselors	
	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
29-1215	Family Medicine Physicians		

Workforce Region 10 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-2031	Dancers	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5012	Rotary Drill Operators, Oil and Gas	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	51-9031	Cutters and Trimmers, Hand	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-4021	Photographers
31-1120		Home Health and Personal Care Aides	
31-2012		Occupational Therapy Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-7041		Sawing Machine Setters, Operators, and Tenders, Wood	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194		Etchers and Engravers	
Some college, no degree		43-4151	Order Clerks
		Postsecondary nondegree award	31-1131
31-9011	Massage Therapists		
35-2013	Cooks, Private Household		
39-5012	Hairdressers, Hairstylists, and Cosmetologists		
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers		
49-2097	Audiovisual Equipment Installers and Repairers		
53-5031	Ship Engineers		
Associate's degree	17-3022		Civil Engineering Technologists and Technicians
	17-3026		Industrial Engineering Technologists and Technicians
	29-2031		Cardiovascular Technologists and Technicians
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
Bachelor's degree	29-2051	Dietetic Technicians	
	11-1011	Chief Executives	
	19-1023	Zoologists and Wildlife Biologists	
	19-1031	Conservation Scientists	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3091	Interpreters and Translators	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	Master's degree	19-3039	Psychologists, All Other
		25-4011	Archivists
		25-4012	Curators
		29-1071	Physician Assistants
29-1151		Nurse Anesthetists	
Doctoral or professional degree	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	

Workforce Region 11 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-2031	Dancers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
27-1023		Floral Designers	
27-2023		Umpires, Referees, and Other Sports Officials	
27-2032		Choreographers	
27-4021		Photographers	
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4192		Layout Workers, Metal and Plastic	
51-6063		Textile Knitting and Weaving Machine Setters, Operators, and Tenders	
51-6092		Fabric and Apparel Patternmakers	
51-6093		Upholsterers	
51-7011		Cabinetmakers and Bench Carpenters	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194	Etchers and Engravers		
53-4041	Subway and Streetcar Operators		
Some college, no degree	43-4151	Order Clerks	
	29-2061	Licensed Practical and Licensed Vocational Nurses	
Postsecondary nondegree award	31-1131	Nursing Assistants	
	31-9011	Massage Therapists	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2097	Audiovisual Equipment Installers and Repairers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5031	Ship Engineers	
	Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
		17-3027	Mechanical Engineering Technologists and Technicians
19-4031		Chemical Technicians	
27-4012		Broadcast Technicians	
29-1124		Radiation Therapists	
29-2031		Cardiovascular Technologists and Technicians	
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
29-2051		Dietetic Technicians	
Bachelor's degree		11-1011	Chief Executives
	13-2081	Tax Examiners and Collectors, and Revenue Agents	
	17-1012	Landscape Architects	
	19-4021	Biological Technicians	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	19-3039	Psychologists, All Other	
Master's degree	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
	29-1127	Speech-Language Pathologists	
	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	29-9092	Genetic Counselors	
	Doctoral or professional degree	25-1011	Business Teachers, Postsecondary
		25-1031	Architecture Teachers, Postsecondary
		25-1053	Environmental Science Teachers, Postsecondary
25-1062		Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
25-1069		Social Sciences Teachers, Postsecondary, All Other	
25-1122		Communications Teachers, Postsecondary	
25-1193		Recreation and Fitness Studies Teachers, Postsecondary	
25-1199		Postsecondary Teachers, All Other	
29-1215		Family Medicine Physicians	

Workforce Region 12 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1012	Craft Artists	
	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	33-9091	Crossing Guards and Flaggers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	37-3019	Grounds Maintenance Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	39-5093	Shampooers	
	41-9011	Demonstrators and Product Promoters	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	45-2099	Agricultural Workers, All Other	
	47-2043	Floor Sanders and Finishers	
	47-2142	Paperhangers	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	47-5049	Underground Mining Machine Operators, All Other	
	47-5051	Rock Splitters, Quarry	
	47-5071	Roustabouts, Oil and Gas	
	51-3021	Butchers and Meat Cutters	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9051	Food Service Managers
		11-9071	Gambling Managers
		11-9081	Lodging Managers
		11-9131	Postmasters and Mail Superintendents
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
		31-1120	Home Health and Personal Care Aides
		33-2022	Forest Fire Inspectors and Prevention Specialists
		33-3011	Bailiffs
		33-3041	Parking Enforcement Workers
		33-9011	Animal Control Workers
		33-9021	Private Detectives and Investigators
		33-9031	Gambling Surveillance Officers and Gambling Investigators
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3019		Gambling Service Workers, All Other	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4012		Crematory Operators	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3021		Billing and Posting Clerks	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
45-4022		Logging Equipment Operators	
47-2022		Stonemasons	
47-2053		Terrazzo Workers and Finishers	
47-2072		Pile Driver Operators	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
47-5032		Explosives Workers, Ordnance Handling Experts, and Blasters	
47-5081		Helpers--Extraction Workers	
49-9011		Mechanical Door Repairers	
49-9069		Precision Instrument and Equipment Repairers, All Other	
49-9096		Riggers	
49-9097		Signal and Track Switch Repairers	
51-2021		Coil Winders, Tapers, and Finishers	
51-2041		Structural Metal Fabricators and Fitters	
51-4022		Forging Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4023		Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4034		Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4071		Foundry Mold and Coremakers	
51-4191		Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	
51-6062		Textile Cutting Machine Setters, Operators, and Tenders	
51-6064		Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	
51-6092	Fabric and Apparel Patternmakers		
51-6093	Upholsterers		
51-6099	Textile, Apparel, and Furnishings Workers, All Other		
51-7011	Cabinetmakers and Bench Carpenters		
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood		
51-7099	Woodworkers, All Other		
51-8021	Stationary Engineers and Boiler Operators		
51-8091	Chemical Plant and System Operators		
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers		
51-8099	Plant and System Operators, All Other		
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders		
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders		
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders		
51-9111	Packaging and Filling Machine Operators and Tenders		
51-9151	Photographic Process Workers and Processing Machine Operators		
51-9194	Etchers and Engravers		
51-9198	Helpers--Production Workers		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians		
53-4011	Locomotive Engineers		

Workforce Region 12 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
Some college, no degree Postsecondary nondegree award	53-7031	Dredge Operators	
	53-7071	Gas Compressor and Gas Pumping Station Operators	
	43-4151	Order Clerks	
	27-4011	Audio and Video Technicians	
	29-2061	Licensed Practical and Licensed Vocational Nurses	
	31-1131	Nursing Assistants	
	31-9011	Massage Therapists	
	35-2013	Cooks, Private Household	
	39-5011	Barbers	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	
	49-2097	Audiovisual Equipment Installers and Repairers	
	49-9092	Commercial Divers	
	51-4111	Tool and Die Makers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5031	Ship Engineers	
	Associate's degree	17-3022	Civil Engineering Technologists and Technicians
		17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians
17-3025		Environmental Engineering Technologists and Technicians	
17-3026		Industrial Engineering Technologists and Technicians	
17-3027		Mechanical Engineering Technologists and Technicians	
19-4012		Agricultural Technicians	
19-4031		Chemical Technicians	
25-2011		Preschool Teachers, Except Special Education	
27-4012		Broadcast Technicians	
29-1124		Radiation Therapists	
29-2031		Cardiovascular Technologists and Technicians	
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
29-2051		Dietetic Technicians	
39-4011		Embalmers	
43-9031		Desktop Publishers	
Bachelor's degree		11-1011	Chief Executives
		11-2011	Advertising and Promotions Managers
		11-2033	Fundraising Managers
		11-9041	Architectural and Engineering Managers
	13-1121	Meeting, Convention, and Event Planners	
	13-2081	Tax Examiners and Collectors, and Revenue Agents	
	17-1012	Landscape Architects	
	17-1021	Cartographers and Photogrammetrists	
	17-2031	Bioengineers and Biomedical Engineers	
	17-2041	Chemical Engineers	
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	
	19-1012	Food Scientists and Technologists	
	19-1022	Microbiologists	
	19-1023	Zoologists and Wildlife Biologists	
	19-1031	Conservation Scientists	
	19-1099	Life Scientists, All Other	
	19-2021	Atmospheric and Space Scientists	
	19-2032	Materials Scientists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-2043	Hydrologists	
	19-2099	Physical Scientists, All Other	
	19-4021	Biological Technicians	
	21-2099	Religious Workers, All Other	
	23-1022	Arbitrators, Mediators, and Conciliators	
	25-2021	Elementary School Teachers, Except Special Education	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	27-3091	Interpreters and Translators	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
29-1141	Registered Nurses		
29-2036	Medical Dosimetrists		
41-9031	Sales Engineers		
43-9081	Proofreaders and Copy Markers		
Master's degree	19-1041	Epidemiologists	
	19-3011	Economists	
	19-3039	Psychologists, All Other	
	19-3041	Sociologists	
	19-3051	Urban and Regional Planners	
	19-3091	Anthropologists and Archeologists	
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
	29-1127	Speech-Language Pathologists	
	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	29-1291	Acupuncturists	
	29-2091	Orthotists and Prosthetists	
	Doctoral or professional degree	19-2012	Physicists
		23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers
		25-1011	Business Teachers, Postsecondary
25-1031		Architecture Teachers, Postsecondary	
25-1053		Environmental Science Teachers, Postsecondary	
25-1062		Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
25-1069		Social Sciences Teachers, Postsecondary, All Other	
25-1122		Communications Teachers, Postsecondary	
25-1193		Recreation and Fitness Studies Teachers, Postsecondary	
25-1199		Postsecondary Teachers, All Other	
29-1022		Oral and Maxillofacial Surgeons	
29-1023		Orthodontists	
29-1024		Prosthodontists	
29-1081		Podiatrists	
29-1181		Audiologists	
29-1215		Family Medicine Physicians	

Workforce Region 13 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	39-5093	Shampooers	
	41-9011	Demonstrators and Product Promoters	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3016	Helpers--Roofers	
	47-5012	Rotary Drill Operators, Oil and Gas	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2032	Choreographers
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
31-1120		Home Health and Personal Care Aides	
31-2012		Occupational Therapy Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
47-5081		Helpers--Extraction Workers	
49-9011		Mechanical Door Repairers	
49-9096		Riggers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6063		Textile Knitting and Weaving Machine Setters, Operators, and Tenders	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194		Etchers and Engravers	
Postsecondary nondegree award		29-2061	Licensed Practical and Licensed Vocational Nurses
		31-1131	Nursing Assistants
		35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2097	Audiovisual Equipment Installers and Repairers	
	51-4111	Tool and Die Makers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
		29-2031	Cardiovascular Technologists and Technicians
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
29-2051		Dietetic Technicians	
Bachelor's degree	11-1011	Chief Executives	
	17-1012	Landscape Architects	
	17-2031	Bioengineers and Biomedical Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-4021	Biological Technicians	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
	Master's degree	19-3039	Psychologists, All Other
		19-3094	Political Scientists
		25-4011	Archivists
25-4012		Curators	
29-1071		Physician Assistants	
29-1151		Nurse Anesthetists	
Doctoral or professional degree	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1215	Family Medicine Physicians	

Workforce Region 14 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-2031	Dancers	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	47-5012	Rotary Drill Operators, Oil and Gas	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	High school diploma or equivalent	21-1094	Community Health Workers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2021		Telephone Operators	
43-3041		Gambling Cage Workers	
47-2171		Reinforcing Iron and Rebar Workers	
47-5081		Helpers--Extraction Workers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6042		Shoe Machine Operators and Tenders	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9194		Etchers and Engravers	
Postsecondary nondegree award		35-2013	Cooks, Private Household
	49-2097	Audiovisual Equipment Installers and Repairers	
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians	
	27-4012	Broadcast Technicians	
Bachelor's degree	29-2051	Dietetic Technicians	
	17-2171	Petroleum Engineers	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
Master's degree	27-1029	Designers, All Other	
	29-1129	Therapists, All Other	
	19-3039	Psychologists, All Other	
	19-3094	Political Scientists	
	25-4011	Archivists	
Doctoral or professional degree	25-4012	Curators	
	25-1011	Business Teachers, Postsecondary	
	25-1031	Architecture Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1243	Pediatric Surgeons	

Workforce Region 15 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	33-9091	Crossing Guards and Flaggers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	41-9012	Models	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	47-2043	Floor Sanders and Finishers	
	47-2142	Paperhangers	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	47-5051	Rock Splitters, Quarry	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	53-7121	Tank Car, Truck, and Ship Loaders	
	High school diploma or equivalent	11-9071	Gambling Managers
		11-9081	Lodging Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
		31-1120	Home Health and Personal Care Aides
		33-3011	Bailiffs
		37-3013	Tree Trimmers and Pruners
39-1013		First-Line Supervisors of Gambling Services Workers	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
45-4022		Logging Equipment Operators	
47-2022		Stonemasons	
47-2072		Pile Driver Operators	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
47-5081		Helpers--Extraction Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6041		Shoe and Leather Workers and Repairers	
51-6042		Shoe Machine Operators and Tenders	
51-6092		Fabric and Apparel Patternmakers	
51-6099		Textile, Apparel, and Furnishings Workers, All Other	
51-7011		Cabinetmakers and Bench Carpenters	
51-7041		Sawing Machine Setters, Operators, and Tenders, Wood	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-8099		Plant and System Operators, All Other	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194		Etchers and Engravers	
51-9198	Helpers--Production Workers		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians		
53-7071	Gas Compressor and Gas Pumping Station Operators		
Some college, no degree	43-4151	Order Clerks	
	Postsecondary nondegree award	27-4011	Audio and Video Technicians
		27-4015	Lighting Technicians

Workforce Region 15 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
Associate's degree	29-2061	Licensed Practical and Licensed Vocational Nurses
	31-1131	Nursing Assistants
	31-9011	Massage Therapists
	35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers
	49-2097	Audiovisual Equipment Installers and Repairers
	49-9092	Commercial Divers
	51-4111	Tool and Die Makers
	51-9162	Computer Numerically Controlled Tool Programmers
	53-5021	Captains, Mates, and Pilots of Water Vessels
	53-5031	Ship Engineers
	17-3025	Environmental Engineering Technologists and Technicians
	17-3028	Calibration Technologists and Technicians
	19-4013	Food Science Technicians
	27-4012	Broadcast Technicians
	29-2031	Cardiovascular Technologists and Technicians
	29-2033	Nuclear Medicine Technologists
	29-2035	Magnetic Resonance Imaging Technologists
	29-2051	Dietetic Technicians
Bachelor's degree	11-1011	Chief Executives
	11-2011	Advertising and Promotions Managers
	11-9161	Emergency Management Directors
	17-1012	Landscape Architects
	17-1021	Cartographers and Photogrammetrists
	17-2031	Bioengineers and Biomedical Engineers
	17-2041	Chemical Engineers
	19-1011	Animal Scientists
	19-1013	Soil and Plant Scientists
	19-1023	Zoologists and Wildlife Biologists
	19-1031	Conservation Scientists
	19-2042	Geoscientists, Except Hydrologists and Geographers
	19-2043	Hydrologists
	19-4021	Biological Technicians
	19-4061	Social Science Research Assistants
	21-2099	Religious Workers, All Other
	25-4013	Museum Technicians and Conservators
	27-1027	Set and Exhibit Designers
	27-1029	Designers, All Other
	27-3011	Broadcast Announcers and Radio Disc Jockeys
Master's degree	29-1125	Recreational Therapists
	29-1129	Therapists, All Other
	29-1141	Registered Nurses
	33-3031	Fish and Game Wardens
	19-1041	Epidemiologists
	19-3011	Economists
	19-3039	Psychologists, All Other
	25-4011	Archivists
	25-4012	Curators
	29-1071	Physician Assistants
	29-1127	Speech-Language Pathologists
	29-1151	Nurse Anesthetists
	29-1161	Nurse Midwives
	29-1171	Nurse Practitioners
	Doctoral or professional degree	29-2091
19-1021		Biochemists and Biophysicists
23-1021		Administrative Law Judges, Adjudicators, and Hearing Officers
25-1011		Business Teachers, Postsecondary
25-1053		Environmental Science Teachers, Postsecondary
25-1062		Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1069		Social Sciences Teachers, Postsecondary, All Other
25-1122		Communications Teachers, Postsecondary
25-1193		Recreation and Fitness Studies Teachers, Postsecondary
25-1199		Postsecondary Teachers, All Other
29-1022		Oral and Maxillofacial Surgeons
29-1029		Dentists, All Other Specialists
29-1181		Audiologists
29-1213		Dermatologists
29-1215		Family Medicine Physicians

Workforce Region 16 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
No formal educational credential	33-9091	Crossing Guards and Flaggers
	35-3041	Food Servers, Nonrestaurant
	37-2019	Building Cleaning Workers, All Other
	39-3021	Motion Picture Projectionists
	39-3031	Ushers, Lobby Attendants, and Ticket Takers
	41-9011	Demonstrators and Product Promoters
	47-2082	Tapers
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
	47-3012	Helpers--Carpenters
	47-3016	Helpers--Roofers
	51-3021	Butchers and Meat Cutters
	51-3099	Food Processing Workers, All Other
	51-6052	Tailors, Dressmakers, and Custom Sewers
	53-5011	Sailors and Marine Oilers
	53-6021	Parking Attendants
	53-7061	Cleaners of Vehicles and Equipment
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand
High school diploma or equivalent	11-9081	Lodging Managers
	11-9179	Personal Service Managers, All Other
	21-1094	Community Health Workers
	27-1023	Floral Designers
	27-2023	Umpires, Referees, and Other Sports Officials
	27-2032	Choreographers
	27-2091	Disc Jockeys, Except Radio
	27-4021	Photographers
	29-2092	Hearing Aid Specialists
	31-1120	Home Health and Personal Care Aides
	33-3011	Bailiffs
	33-9021	Private Detectives and Investigators
	37-3013	Tree Trimmers and Pruners
	39-2011	Animal Trainers
	39-3093	Locker Room, Coatroom, and Dressing Room Attendants
	39-4021	Funeral Attendants
	39-6012	Concierges
	39-7010	Tour and Travel Guides
	39-9041	Residential Advisors
	43-2011	Switchboard Operators, Including Answering Service
	43-3041	Gambling Cage Workers
	43-4111	Interviewers, Except Eligibility and Loan
	43-4121	Library Assistants, Clerical
	43-5041	Meter Readers, Utilities
	45-4022	Logging Equipment Operators
	47-2171	Reinforcing Iron and Rebar Workers
	47-5023	Earth Drillers, Except Oil and Gas
	49-9011	Mechanical Door Repairers
	49-9044	Millwrights
	51-2041	Structural Metal Fabricators and Fitters
	51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
	51-6092	Fabric and Apparel Patternmakers
	51-7011	Cabinetmakers and Bench Carpenters
	51-8012	Power Distributors and Dispatchers
	51-8091	Chemical Plant and System Operators
	51-9011	Chemical Equipment Operators and Tenders
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders
	51-9071	Jewelers and Precious Stone and Metal Workers
	51-9081	Dental Laboratory Technicians
	51-9111	Packaging and Filling Machine Operators and Tenders
	51-9198	Helpers--Production Workers
Some college, no degree	43-4151	Order Clerks
Postsecondary nondegree award	27-3092	Court Reporters and Simultaneous Captioners
	27-4011	Audio and Video Technicians
	29-2061	Licensed Practical and Licensed Vocational Nurses
	31-1131	Nursing Assistants
	31-9011	Massage Therapists
	35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers

Workforce Region 16 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
Associate's degree	49-2097	Audiovisual Equipment Installers and Repairers	
	53-2012	Commercial Pilots	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5031	Ship Engineers	
	17-3022	Civil Engineering Technologists and Technicians	
	17-3025	Environmental Engineering Technologists and Technicians	
	19-4031	Chemical Technicians	
	19-4099	Life, Physical, and Social Science Technicians, All Other	
	23-2099	Legal Support Workers, All Other	
	25-2011	Preschool Teachers, Except Special Education	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
	29-2051	Dietetic Technicians	
	39-4031	Morticians, Undertakers, and Funeral Arrangers	
	Bachelor's degree	11-1011	Chief Executives
		11-3061	Purchasing Managers
11-3131		Training and Development Managers	
11-9039		Education Administrators, All Other	
11-9072		Entertainment and Recreation Managers, Except Gambling	
13-2041		Credit Analysts	
13-2054		Financial Risk Specialists	
13-2081		Tax Examiners and Collectors, and Revenue Agents	
17-2061		Computer Hardware Engineers	
19-4021		Biological Technicians	
19-4061		Social Science Research Assistants	
19-4092		Forensic Science Technicians	
21-2099		Religious Workers, All Other	
25-2021		Elementary School Teachers, Except Special Education	
25-4013		Museum Technicians and Conservators	
25-9099		Educational Instruction and Library Workers, All Other	
27-1013		Fine Artists, Including Painters, Sculptors, and Illustrators	
27-1021		Commercial and Industrial Designers	
27-1027		Set and Exhibit Designers	
27-1029		Designers, All Other	
27-2041		Music Directors and Composers	
27-3041		Editors	
27-3042		Technical Writers	
27-4031		Camera Operators, Television, Video, and Film	
29-1125		Recreational Therapists	
29-1129		Therapists, All Other	
29-1141		Registered Nurses	
53-2011		Airline Pilots, Copilots, and Flight Engineers	
15-1221		Computer and Information Research Scientists	
19-3039	Psychologists, All Other		
25-4011	Archivists		
25-9021	Farm and Home Management Educators		
29-1071	Physician Assistants		
29-1127	Speech-Language Pathologists		
29-1151	Nurse Anesthetists		
29-1171	Nurse Practitioners		
29-9091	Athletic Trainers		
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary	
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary		
25-1069	Social Sciences Teachers, Postsecondary, All Other		
25-1122	Communications Teachers, Postsecondary		
25-1193	Recreation and Fitness Studies Teachers, Postsecondary		
25-1199	Postsecondary Teachers, All Other		
29-1081	Podiatrists		
29-1215	Family Medicine Physicians		

Workforce Region 17 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	33-9091	Crossing Guards and Flaggers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	39-5093	Shampooers	
	41-9011	Demonstrators and Product Promoters	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	45-2099	Agricultural Workers, All Other	
	47-2041	Carpet Installers	
	47-2082	Tapers	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5012	Rotary Drill Operators, Oil and Gas	
	47-5013	Service Unit Operators, Oil and Gas	
	47-5041	Continuous Mining Machine Operators	
	51-3021	Butchers and Meat Cutters	
	51-6021	Pressers, Textile, Garment, and Related Materials	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9051	Food Service Managers
		11-9081	Lodging Managers
		19-5012	Occupational Health and Safety Technicians
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2032	Choreographers
27-4021		Photographers	
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
31-1133		Psychiatric Aides	
31-2012		Occupational Therapy Aides	
33-1099		First-Line Supervisors of Protective Service Workers, All Other	
33-3011		Bailiffs	
33-3052		Transit and Railroad Police	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6011		Baggage Porters and Bellhops	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-3021		Billing and Posting Clerks	
43-3041		Gambling Cage Workers	
43-4011		Brokerage Clerks	
43-4111		Interviewers, Except Eligibility and Loan	
43-5041		Meter Readers, Utilities	
43-9022		Word Processors and Typists	
43-9071		Office Machine Operators, Except Computer	
47-2011		Boilermakers	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
47-4071		Septic Tank Servicers and Sewer Pipe Cleaners	
47-5023		Earth Drillers, Except Oil and Gas	
49-3041		Farm Equipment Mechanics and Service Technicians	
49-3043		Rail Car Repairers	
49-3092		Recreational Vehicle Service Technicians	
49-9011		Mechanical Door Repairers	
49-9061		Camera and Photographic Equipment Repairers	
51-2031		Engine and Other Machine Assemblers	
51-2041		Structural Metal Fabricators and Fitters	
51-4023		Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4035		Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-6093		Upholsterers	
51-7011		Cabinetmakers and Bench Carpenters	
51-7021		Furniture Finishers	
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood		
51-7099	Woodworkers, All Other		
51-8091	Chemical Plant and System Operators		
51-8092	Gas Plant Operators		
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers		
51-8099	Plant and System Operators, All Other		
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders		
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders		
51-9111	Packaging and Filling Machine Operators and Tenders		
51-9193	Cooling and Freezing Equipment Operators and Tenders		
51-9197	Tire Builders		
51-9198	Helpers--Production Workers		
53-4011	Locomotive Engineers		

Workforce Region 17 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
Some college, no degree Postsecondary nondegree award	53-4031	Railroad Conductors and Yardmasters
	53-4041	Subway and Streetcar Operators
	43-4151	Order Clerks
	27-4011	Audio and Video Technicians
	29-2061	Licensed Practical and Licensed Vocational Nurses
	29-9099	Healthcare Practitioners and Technical Workers, All Other
	31-1131	Nursing Assistants
	31-9011	Massage Therapists
	35-2013	Cooks, Private Household
	39-5011	Barbers
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers
	49-2097	Audiovisual Equipment Installers and Repairers
	49-3052	Motorcycle Mechanics
	51-4111	Tool and Die Makers
	51-5111	Prepress Technicians and Workers
	Associate's degree	53-5031
17-3019		Drafters, All Other
17-3022		Civil Engineering Technologists and Technicians
17-3025		Environmental Engineering Technologists and Technicians
17-3028		Calibration Technologists and Technicians
19-4031		Chemical Technicians
19-4044		Hydrologic Technicians
25-2011		Preschool Teachers, Except Special Education
29-1124		Radiation Therapists
29-2031		Cardiovascular Technologists and Technicians
29-2033		Nuclear Medicine Technologists
29-2035		Magnetic Resonance Imaging Technologists
29-2051		Dietetic Technicians
Bachelor's degree	11-1011	Chief Executives
	11-2011	Advertising and Promotions Managers
	11-3111	Compensation and Benefits Managers
	11-9039	Education Administrators, All Other
	11-9041	Architectural and Engineering Managers
	11-9121	Natural Sciences Managers
	11-9161	Emergency Management Directors
	13-1121	Meeting, Convention, and Event Planners
	13-2081	Tax Examiners and Collectors, and Revenue Agents
	17-1012	Landscape Architects
	17-2081	Environmental Engineers
	17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors
	17-2131	Materials Engineers
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers
	19-1012	Food Scientists and Technologists
	19-1023	Zoologists and Wildlife Biologists
	19-1029	Biological Scientists, All Other
	19-1031	Conservation Scientists
	19-4021	Biological Technicians
	21-2099	Religious Workers, All Other
	25-2021	Elementary School Teachers, Except Special Education
	27-1014	Special Effects Artists and Animators
	27-1027	Set and Exhibit Designers
	27-1029	Designers, All Other
	27-2041	Music Directors and Composers
	27-3091	Interpreters and Translators
	27-4031	Camera Operators, Television, Video, and Film
	27-4032	Film and Video Editors
	29-1125	Recreational Therapists
	29-1128	Exercise Physiologists
	29-1129	Therapists, All Other
	29-1141	Registered Nurses
	41-9031	Sales Engineers
Master's degree	15-1221	Computer and Information Research Scientists
	19-3039	Psychologists, All Other
	19-3051	Urban and Regional Planners
	25-4011	Archivists
	25-4012	Curators
	29-1071	Physician Assistants
	29-1127	Speech-Language Pathologists
	29-1151	Nurse Anesthetists
	29-1171	Nurse Practitioners
	Doctoral or professional degree	23-1023
25-1011		Business Teachers, Postsecondary
25-1053		Environmental Science Teachers, Postsecondary
25-1062		Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1069		Social Sciences Teachers, Postsecondary, All Other
25-1122		Communications Teachers, Postsecondary
25-1193		Recreation and Fitness Studies Teachers, Postsecondary
25-1199		Postsecondary Teachers, All Other
29-1215		Family Medicine Physicians
29-1221		Pediatricians, General

Workforce Region 18 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-2031	Dancers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5012	Rotary Drill Operators, Oil and Gas	
	47-5013	Service Unit Operators, Oil and Gas	
	51-3023	Slaughterers and Meat Packers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	51-9022	Grinding and Polishing Workers, Hand	
	51-9123	Painting, Coating, and Decorating Workers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	53-7199	Material Moving Workers, All Other	
	High school diploma or equivalent	11-9013	Farmers, Ranchers, and Other Agricultural Managers
		11-9071	Gambling Managers
		11-9081	Lodging Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
31-1133		Psychiatric Aides	
31-2022		Physical Therapist Aides	
33-1099		First-Line Supervisors of Protective Service Workers, All Other	
33-3011		Bailiffs	
33-3052		Transit and Railroad Police	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
43-5041		Meter Readers, Utilities	
43-9022		Word Processors and Typists	
43-9071		Office Machine Operators, Except Computer	
45-4011		Forest and Conservation Workers	
45-4021		Fallers	
47-2011		Boilermakers	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
47-2231		Solar Photovoltaic Installers	
47-4071		Septic Tank Servicers and Sewer Pipe Cleaners	
47-5023		Earth Drillers, Except Oil and Gas	
47-5081		Helpers--Extraction Workers	
49-2092		Electric Motor, Power Tool, and Related Repairers	
49-3041		Farm Equipment Mechanics and Service Technicians	
49-9011		Mechanical Door Repairers	
49-9061		Camera and Photographic Equipment Repairers	
49-9094		Locksmiths and Safe Repairers	
49-9096		Riggers	
51-2011		Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	
51-2041		Structural Metal Fabricators and Fitters	
51-3093		Food Cooking Machine Operators and Tenders	
51-4022		Forging Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic		
51-4061	Model Makers, Metal and Plastic		
51-6092	Fabric and Apparel Patternmakers		
51-6093	Upholsterers		
51-7011	Cabinetmakers and Bench Carpenters		
51-7099	Woodworkers, All Other		
51-8091	Chemical Plant and System Operators		
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders		
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders		
51-9111	Packaging and Filling Machine Operators and Tenders		

Workforce Region 18 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
Some college, no degree Postsecondary nondegree award	51-9194	Etchers and Engravers	
	51-9196	Paper Goods Machine Setters, Operators, and Tenders	
	51-9198	Helpers--Production Workers	
	53-2022	Airfield Operations Specialists	
	53-2031	Flight Attendants	
	53-6061	Passenger Attendants	
	53-7072	Pump Operators, Except Wellhead Pumpers	
	43-4151	Order Clerks	
	27-3092	Court Reporters and Simultaneous Captioners	
	27-4011	Audio and Video Technicians	
	29-2061	Licensed Practical and Licensed Vocational Nurses	
	31-1131	Nursing Assistants	
	31-9011	Massage Therapists	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2097	Audiovisual Equipment Installers and Repairers	
	49-3052	Motorcycle Mechanics	
	51-4111	Tool and Die Makers	
	51-5111	Prepress Technicians and Workers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5031	Ship Engineers	
	Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
		19-4031	Chemical Technicians
		23-2099	Legal Support Workers, All Other
		25-2011	Preschool Teachers, Except Special Education
		27-4012	Broadcast Technicians
29-1124		Radiation Therapists	
29-2031		Cardiovascular Technologists and Technicians	
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
29-2051		Dietetic Technicians	
39-4031		Morticians, Undertakers, and Funeral Arrangers	
49-2091		Avionics Technicians	
Bachelor's degree		11-1011	Chief Executives
		11-2011	Advertising and Promotions Managers
		11-2033	Fundraising Managers
	11-9041	Architectural and Engineering Managers	
	13-1075	Labor Relations Specialists	
	17-1012	Landscape Architects	
	17-2031	Bioengineers and Biomedical Engineers	
	17-2081	Environmental Engineers	
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-2031	Chemists	
	19-4021	Biological Technicians	
	21-2099	Religious Workers, All Other	
	25-2021	Elementary School Teachers, Except Special Education	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-2041	Music Directors and Composers	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	Master's degree	29-1125	Recreational Therapists
29-1129		Therapists, All Other	
29-1141		Registered Nurses	
41-9031		Sales Engineers	
53-2011		Airline Pilots, Copilots, and Flight Engineers	
19-3039		Psychologists, All Other	
25-4011		Archivists	
25-4012		Curators	
29-1071		Physician Assistants	
29-1127		Speech-Language Pathologists	
Doctoral or professional degree	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	23-1023	Judges, Magistrate Judges, and Magistrates	
	25-1011	Business Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1181	Audiologists	
	29-1215	Family Medicine Physicians	
	29-1221	Pediatricians, General	

Workforce Region 19 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	37-2019	Building Cleaning Workers, All Other	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
High school diploma or equivalent	21-1094	Community Health Workers	
	27-4021	Photographers	
	33-3011	Bailiffs	
	37-3013	Tree Trimmers and Pruners	
	39-6012	Concierges	
	39-7010	Tour and Travel Guides	
	39-9041	Residential Advisors	
	41-3041	Travel Agents	
	47-2171	Reinforcing Iron and Rebar Workers	
	51-2041	Structural Metal Fabricators and Fitters	
	51-8091	Chemical Plant and System Operators	
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	
	Postsecondary nondegree award	35-2013	Cooks, Private Household
		49-2097	Audiovisual Equipment Installers and Repairers
Associate's degree	29-2051	Dietetic Technicians	
Bachelor's degree	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
Master's degree	29-1129	Therapists, All Other	
	19-3039	Psychologists, All Other	
	25-4011	Archivists	
Doctoral or professional degree	25-1011	Business Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	

Workforce Region 20 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	33-9091	Crossing Guards and Flaggers	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	47-2041	Carpet Installers	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-3099	Food Processing Workers, All Other	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	51-9031	Cutters and Trimmers, Hand	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9081	Lodging Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
		31-1120	Home Health and Personal Care Aides
		33-3011	Bailiffs
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6011		Baggage Porters and Bellhops	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3099		Financial Clerks, All Other	
43-4011		Brokerage Clerks	
43-4111		Interviewers, Except Eligibility and Loan	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
49-9011		Mechanical Door Repairers	
49-9012		Control and Valve Installers and Repairers, Except Mechanical Door	
49-9043		Maintenance Workers, Machinery	
49-9061		Camera and Photographic Equipment Repairers	
49-9091		Coin, Vending, and Amusement Machine Servicers and Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4192		Layout Workers, Metal and Plastic	
51-4194		Tool Grinders, Filers, and Sharpeners	
51-6092		Fabric and Apparel Patternmakers	
51-6093		Upholsterers	
51-7011		Cabinetmakers and Bench Carpenters	
51-7041		Sawing Machine Setters, Operators, and Tenders, Wood	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9081		Dental Laboratory Technicians	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9198		Helpers--Production Workers	
53-4041	Subway and Streetcar Operators		
53-6041	Traffic Technicians		
Some college, no degree	43-4151	Order Clerks	
	Postsecondary nondegree award	27-3092	Court Reporters and Simultaneous Captioners
		27-4011	Audio and Video Technicians
	29-2061	Licensed Practical and Licensed Vocational Nurses	

Workforce Region 20 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title
Associate's degree	31-1131	Nursing Assistants
	31-9011	Massage Therapists
	35-2013	Cooks, Private Household
	39-5012	Hairdressers, Hairstylists, and Cosmetologists
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers
	49-2097	Audiovisual Equipment Installers and Repairers
	51-4111	Tool and Die Makers
	53-5021	Captains, Mates, and Pilots of Water Vessels
	53-5031	Ship Engineers
	17-3026	Industrial Engineering Technologists and Technicians
	19-4031	Chemical Technicians
	25-2011	Preschool Teachers, Except Special Education
	29-2031	Cardiovascular Technologists and Technicians
	29-2033	Nuclear Medicine Technologists
	Bachelor's degree	29-2035
29-2051		Dietetic Technicians
39-4031		Morticians, Undertakers, and Funeral Arrangers
49-2091		Avionics Technicians
11-1011		Chief Executives
11-3131		Training and Development Managers
11-9039		Education Administrators, All Other
11-9041		Architectural and Engineering Managers
13-2061		Financial Examiners
13-2081		Tax Examiners and Collectors, and Revenue Agents
17-1012		Landscape Architects
19-1023		Zoologists and Wildlife Biologists
19-1031		Conservation Scientists
19-4021		Biological Technicians
Master's degree		25-2021
	25-9099	Educational Instruction and Library Workers, All Other
	27-1027	Set and Exhibit Designers
	27-1029	Designers, All Other
	27-4032	Film and Video Editors
	29-1125	Recreational Therapists
	29-1129	Therapists, All Other
	29-1141	Registered Nurses
	15-1221	Computer and Information Research Scientists
	19-3039	Psychologists, All Other
	25-4011	Archivists
	25-4012	Curators
	29-1071	Physician Assistants
	29-1127	Speech-Language Pathologists
	Doctoral or professional degree	29-1151
29-1171		Nurse Practitioners
29-9091		Athletic Trainers
23-1023		Judges, Magistrate Judges, and Magistrates
25-1011		Business Teachers, Postsecondary
25-1062		Area, Ethnic, and Cultural Studies Teachers, Postsecondary
25-1069		Social Sciences Teachers, Postsecondary, All Other
25-1122		Communications Teachers, Postsecondary
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
25-1199	Postsecondary Teachers, All Other	
29-1215	Family Medicine Physicians	

Workforce Region 21 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	37-3019	Grounds Maintenance Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	41-9012	Models	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	47-5051	Rock Splitters, Quarry	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
27-4021		Photographers	
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-2021		Telephone Operators	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
47-2171		Reinforcing Iron and Rebar Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9111		Packaging and Filling Machine Operators and Tenders	
51-9194		Etchers and Engravers	
53-4011		Locomotive Engineers	
Postsecondary nondegree award	31-1131	Nursing Assistants	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2097	Audiovisual Equipment Installers and Repairers	
	51-4111	Tool and Die Makers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
	53-5031	Ship Engineers	
	Associate's degree	17-3025	Environmental Engineering Technologists and Technicians
27-4012		Broadcast Technicians	
29-2033		Nuclear Medicine Technologists	
29-2035		Magnetic Resonance Imaging Technologists	
29-2051		Dietetic Technicians	
Bachelor's degree	11-1011	Chief Executives	
	11-2011	Advertising and Promotions Managers	
	17-1012	Landscape Architects	
	17-2031	Bioengineers and Biomedical Engineers	
	17-2171	Petroleum Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-4021	Biological Technicians	
	21-2099	Religious Workers, All Other	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	29-1129	Therapists, All Other	
	29-1141	Registered Nurses	
Master's degree	19-3039	Psychologists, All Other	
	19-3094	Political Scientists	
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
Doctoral or professional degree	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1031	Architecture Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
29-1181	Audiologists		
29-1243	Pediatric Surgeons		

Workforce Region 22 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	37-2019	Building Cleaning Workers, All Other	
	37-3019	Grounds Maintenance Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	41-9012	Models	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
		27-2023	Umpires, Referees, and Other Sports Officials
27-2032		Choreographers	
27-4021		Photographers	
29-2092		Hearing Aid Specialists	
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
47-2171		Reinforcing Iron and Rebar Workers	
47-5081		Helpers--Extraction Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9194		Etchers and Engravers	
Postsecondary nondegree award		29-2061	Licensed Practical and Licensed Vocational Nurses
		31-1131	Nursing Assistants
		35-2013	Cooks, Private Household
		49-2097	Audiovisual Equipment Installers and Repairers
	53-5031	Ship Engineers	
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
Bachelor's degree	29-2051	Dietetic Technicians	
	17-2031	Bioengineers and Biomedical Engineers	
	19-1023	Zoologists and Wildlife Biologists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-4021	Biological Technicians	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	29-1125	Recreational Therapists	
	29-1129	Therapists, All Other	
Master's degree	29-1141	Registered Nurses	
	19-3039	Psychologists, All Other	
	19-3094	Political Scientists	
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
	29-1151	Nurse Anesthetists	
Doctoral or professional degree	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1215	Family Medicine Physicians	
	29-1243	Pediatric Surgeons	

Workforce Region 23 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-1019	Artists and Related Workers, All Other	
	27-2031	Dancers	
	37-2019	Building Cleaning Workers, All Other	
	37-3019	Grounds Maintenance Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	41-9011	Demonstrators and Product Promoters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	47-5051	Rock Splitters, Quarry	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	High school diploma or equivalent	11-9071	Gambling Managers
		21-1094	Community Health Workers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
37-3013		Tree Trimmers and Pruners	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
41-3041		Travel Agents	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
45-4023		Log Graders and Scalars	
45-4029		Logging Workers, All Other	
47-2171		Reinforcing Iron and Rebar Workers	
47-5081		Helpers--Extraction Workers	
49-9011		Mechanical Door Repairers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-6092		Fabric and Apparel Patternmakers	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9194		Etchers and Engravers	
53-4011	Locomotive Engineers		
Postsecondary nondegree award	29-2061	Licensed Practical and Licensed Vocational Nurses	
	31-1131	Nursing Assistants	
	35-2013	Cooks, Private Household	
	49-2097	Audiovisual Equipment Installers and Repairers	
	51-4111	Tool and Die Makers	
	53-5031	Ship Engineers	
Associate's degree	17-3025	Environmental Engineering Technologists and Technicians	
	27-4012	Broadcast Technicians	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
	29-2051	Dietetic Technicians	
Bachelor's degree	11-2011	Advertising and Promotions Managers	
	17-1021	Cartographers and Photogrammetrists	
	17-2021	Agricultural Engineers	
	17-2031	Bioengineers and Biomedical Engineers	
	17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	
	19-1011	Animal Scientists	
	19-1031	Conservation Scientists	
	19-2042	Geoscientists, Except Hydrologists and Geographers	
	19-4021	Biological Technicians	
	21-2099	Religious Workers, All Other	
	25-4013	Museum Technicians and Conservators	
	27-1027	Set and Exhibit Designers	
	27-1029	Designers, All Other	
	27-3011	Broadcast Announcers and Radio Disc Jockeys	
	29-1129	Therapists, All Other	
Master's degree	29-1141	Registered Nurses	
	19-3039	Psychologists, All Other	
	25-4011	Archivists	
	25-4012	Curators	
	29-1071	Physician Assistants	
Doctoral or professional degree	29-1151	Nurse Anesthetists	
	29-1171	Nurse Practitioners	
	25-1011	Business Teachers, Postsecondary	
	25-1053	Environmental Science Teachers, Postsecondary	
	25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	
	25-1069	Social Sciences Teachers, Postsecondary, All Other	
	25-1122	Communications Teachers, Postsecondary	
	25-1193	Recreation and Fitness Studies Teachers, Postsecondary	
	25-1199	Postsecondary Teachers, All Other	
	29-1024	Prosthodontists	
29-1215	Family Medicine Physicians		

Workforce Region 24 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
No formal educational credential	27-2031	Dancers	
	33-9091	Crossing Guards and Flaggers	
	35-2019	Cooks, All Other	
	35-3041	Food Servers, Nonrestaurant	
	37-2019	Building Cleaning Workers, All Other	
	37-3019	Grounds Maintenance Workers, All Other	
	39-3021	Motion Picture Projectionists	
	39-3031	Ushers, Lobby Attendants, and Ticket Takers	
	39-5093	Shampooers	
	41-9011	Demonstrators and Product Promoters	
	45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	
	45-2099	Agricultural Workers, All Other	
	47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	
	47-3012	Helpers--Carpenters	
	47-3016	Helpers--Roofers	
	47-5013	Service Unit Operators, Oil and Gas	
	51-3021	Butchers and Meat Cutters	
	51-6051	Sewers, Hand	
	51-6052	Tailors, Dressmakers, and Custom Sewers	
	51-9022	Grinding and Polishing Workers, Hand	
	51-9123	Painting, Coating, and Decorating Workers	
	53-5011	Sailors and Marine Oilers	
	53-6021	Parking Attendants	
	53-7041	Hoist and Winch Operators	
	53-7061	Cleaners of Vehicles and Equipment	
	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	
	High school diploma or equivalent	11-9071	Gambling Managers
		11-9081	Lodging Managers
		21-1094	Community Health Workers
		27-1023	Floral Designers
		27-2023	Umpires, Referees, and Other Sports Officials
		27-2032	Choreographers
		27-3099	Media and Communication Workers, All Other
		27-4021	Photographers
		29-2092	Hearing Aid Specialists
31-1120		Home Health and Personal Care Aides	
33-3011		Bailiffs	
33-9011		Animal Control Workers	
33-9021		Private Detectives and Investigators	
37-3013		Tree Trimmers and Pruners	
39-1013		First-Line Supervisors of Gambling Services Workers	
39-3011		Gambling Dealers	
39-3093		Locker Room, Coatroom, and Dressing Room Attendants	
39-3099		Entertainment Attendants and Related Workers, All Other	
39-4021		Funeral Attendants	
39-6012		Concierges	
39-7010		Tour and Travel Guides	
39-9041		Residential Advisors	
43-2011		Switchboard Operators, Including Answering Service	
43-3041		Gambling Cage Workers	
43-4111		Interviewers, Except Eligibility and Loan	
45-4022		Logging Equipment Operators	
47-2121		Glaziers	
47-2171		Reinforcing Iron and Rebar Workers	
47-4061		Rail-Track Laying and Maintenance Equipment Operators	
47-5081		Helpers--Extraction Workers	
49-2096		Electronic Equipment Installers and Repairers, Motor Vehicles	
49-9011		Mechanical Door Repairers	
49-9096		Riggers	
51-2041		Structural Metal Fabricators and Fitters	
51-4032		Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4035		Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4122		Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	
51-6041		Shoe and Leather Workers and Repairers	
51-6092		Fabric and Apparel Patternmakers	
51-6093		Upholsterers	
51-7011		Cabinetmakers and Bench Carpenters	
51-7041		Sawing Machine Setters, Operators, and Tenders, Wood	
51-7099		Woodworkers, All Other	
51-8091		Chemical Plant and System Operators	
51-8099		Plant and System Operators, All Other	
51-9021		Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	
51-9023		Mixing and Blending Machine Setters, Operators, and Tenders	
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders		
51-9111	Packaging and Filling Machine Operators and Tenders		
51-9194	Etchers and Engravers		
51-9198	Helpers--Production Workers		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians		
53-6041	Traffic Technicians		
53-6051	Transportation Inspectors		
53-6099	Transportation Workers, All Other		

Workforce Region 24 - Occupational Areas of Concern by Educational Requirement

Educational Requirement	SOC Code	SOC Title	
Some college, no degree	43-4151	Order Clerks	
	Postsecondary nondegree award	27-4011	Audio and Video Technicians
	27-4014	Sound Engineering Technicians	
	27-4015	Lighting Technicians	
	29-2061	Licensed Practical and Licensed Vocational Nurses	
	31-1131	Nursing Assistants	
	31-9011	Massage Therapists	
	35-2013	Cooks, Private Household	
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	
	49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	
	49-2097	Audiovisual Equipment Installers and Repairers	
	49-9092	Commercial Divers	
	51-4111	Tool and Die Makers	
	53-5021	Captains, Mates, and Pilots of Water Vessels	
Associate's degree	17-3012	Electrical and Electronics Drafters	
	17-3025	Environmental Engineering Technologists and Technicians	
	17-3026	Industrial Engineering Technologists and Technicians	
	17-3027	Mechanical Engineering Technologists and Technicians	
	19-4071	Forest and Conservation Technicians	
	25-2011	Preschool Teachers, Except Special Education	
	27-4012	Broadcast Technicians	
	29-1124	Radiation Therapists	
	29-2031	Cardiovascular Technologists and Technicians	
	29-2033	Nuclear Medicine Technologists	
	29-2035	Magnetic Resonance Imaging Technologists	
	29-2051	Dietetic Technicians	
	49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	
	49-2091	Avionics Technicians	
	Bachelor's degree	11-1011	Chief Executives
11-2011		Advertising and Promotions Managers	
11-3111		Compensation and Benefits Managers	
13-1075		Labor Relations Specialists	
13-1121		Meeting, Convention, and Event Planners	
13-2081		Tax Examiners and Collectors, and Revenue Agents	
15-2011		Actuaries	
17-1012		Landscape Architects	
17-1021		Cartographers and Photogrammetrists	
17-2031		Bioengineers and Biomedical Engineers	
17-2131		Materials Engineers	
17-2151		Mining and Geological Engineers, Including Mining Safety Engineers	
19-1013		Soil and Plant Scientists	
19-1023		Zoologists and Wildlife Biologists	
19-1031		Conservation Scientists	
19-2042		Geoscientists, Except Hydrologists and Geographers	
19-2043		Hydrologists	
19-4021		Biological Technicians	
21-2099		Religious Workers, All Other	
25-2021		Elementary School Teachers, Except Special Education	
25-4013		Museum Technicians and Conservators	
27-1027		Set and Exhibit Designers	
27-1029		Designers, All Other	
27-3011		Broadcast Announcers and Radio Disc Jockeys	
29-1129		Therapists, All Other	
29-1141		Registered Nurses	
Master's degree		15-2041	Statisticians
		19-3039	Psychologists, All Other
		19-3093	Historians
		25-4011	Archivists
		25-4012	Curators
		29-1071	Physician Assistants
		29-1127	Speech-Language Pathologists
		29-1151	Nurse Anesthetists
		29-1161	Nurse Midwives
	29-1171	Nurse Practitioners	
	29-2091	Orthotists and Prosthetists	
	Doctoral or professional degree	25-1011	Business Teachers, Postsecondary
		25-1053	Environmental Science Teachers, Postsecondary
		25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary
		25-1069	Social Sciences Teachers, Postsecondary, All Other
25-1122		Communications Teachers, Postsecondary	
25-1193		Recreation and Fitness Studies Teachers, Postsecondary	
25-1199		Postsecondary Teachers, All Other	
29-1181		Audiologists	
29-1213		Dermatologists	
29-1215		Family Medicine Physicians	

Labor Market Estimating Conference Methodology

Educational Requirements...

A total of eight classifications are generally used to represent the typical education level most workers need to enter an occupation: “No formal education credential,” “High school diploma or equivalent,” “Some college, no degree,” “Postsecondary nondegree award,” “Associate’s degree,” “Bachelor’s degree,” “Master’s degree,” and “Doctoral or professional degree.”

To assign a unique educational requirement to each occupation, a master list was developed by combining two products: (1) the Florida SkillsEngine CIP-SOC crosswalk, provided by the REACH Office; and (2) the Education and Training Assignments by detailed occupation, produced by the US Department of Labor, Bureau of Labor Statistics (BLS). The REACH crosswalk used the BLS 2018 SOC taxonomy. The BLS educational assignments also use the 2018 SOC taxonomy in this analysis.

The assignment procedure contained the following steps:

- For occupations that had a one-to-one linkage between the occupation and the educational requirement in PAIRIN’s crosswalk:
 - A direct assignment was made, preserving the PAIRIN code.
- For occupations that had multiple educational requirements in PAIRIN’s crosswalk:
 - As directed by the Reimagining Education and Career Help (REACH) and DOE workgroup, 17 occupations (using 2018 SOC counts) were assigned the lower educational requirement.
- For occupations that had “Recognized industry credential” as the educational requirement in PAIRIN’s crosswalk:
 - As directed by the REACH and DOE workgroup, 84 occupations (using 2018 SOC counts) were re-named “Postsecondary nondegree award” to match the category name in BLS’s codes (but not necessarily the BLS educational assignment).
- For occupations that were absent from PAIRIN’s crosswalk (209):
 - BLS educational requirement codes were assigned.

Determination of Areas of Concern

Occupational Classification at the Statewide Level...

As a starting basis, the analysis used the 2018 SOC taxonomy, comprising 848 occupations. Of those, BLS OEWS for fiscal years 2021-22 and 2022-23 referenced 12 occupations from the preceding hybrid 2019 OES taxonomy. These 12 occupations were added into the complete list of 848, and their 28 counterparts from the 2018 SOC taxonomy were removed. The final occupational list used for this analysis was therefore a blend of the 2018 SOC and 2019 OES taxonomies, numbering 832 occupations. The analysis assumes that each of these 832 occupations exists in Florida.

Labor Supply...

The functional labor supply analysis is based on historical labor force and employment data for Florida from BLS and official statewide projections adopted by the Florida Economic Estimating Conference (FEEC) in accordance with ss. 216.133-216.136, Florida Statutes.

The supply determination procedure contained the following steps:

- A ratio of annual occupational employment (including self-employed) to the official labor force projection was calculated for each occupation from Florida's OEWS employment for fiscal years 2020-21 and 2021-22 and Florida's IMPLAN estimates for fiscal year 2020-21. If OEWS data existed, the maximum ratio was selected, otherwise the IMPLAN ratio was utilized as the representative ratio of labor supply for that occupation. The selected ratios were increased proportionally such that the sum of the employment across all occupations represented 100% of the labor force.
- In order to produce labor supply by occupation for each forecasted year, the statewide labor supply was allocated to each occupation based on its adjusted ratio. These ratios were held constant throughout the forecast period.

Labor Demand...

The labor demand analysis utilizes a multi-step approach to estimate 10-year occupational employment, which broadly includes: (1) establishing a base employment value on an occupation-by-occupation basis in fiscal year 2021-22 to moderate the impact of COVID-19 on future employment estimates; and (2) conducting a series of tests based on set criteria to determine the best rate by which to grow each occupation.

The base employment determination procedure contained the following steps:

- Out of 832 occupations, 705 occupations' base years utilized the maximum employment from Florida's OEWS employment for either fiscal years 2020-21 or 2021-22 or Florida's IMPLAN estimates for fiscal year 2020-21, assuming that base-year demand must meet or exceed filled jobs.
- The remaining 127 occupations received special base-employment treatment. If their calculated maximum employment for the 2020-21 and 2021-22 period was at least 10% lower than their calculated maximum employment for the 2016-17, 2017-18, and 2018-19 period, the maximum base employment for the earlier employment period was used. Review showed that a significant number of these occupations were uniquely affected by pandemic effects.

The growth rate determination procedure contained the following steps:

- To determine the most appropriate growth rate by occupation, the analysis relied on Florida's per capita OEWS employment (without self-employed) by occupation compared to all states and the District of Columbia for fiscal years 2020-21 and 2021-22. A set of per capita ratios was generated using state employment published by BLS and population data published by the US Census Bureau. Published national OEWS estimates by occupation were used for the series mean, and a standard deviation of per capita employment for each occupation for each fiscal year was calculated. By occupation, Florida's ratios were then compared to the national mean in each year and evaluated to see if they fell within one standard deviation.

- A set of 3 conditions based from the standard deviation analysis were used to determine standard treatment for the assignment of occupational growth rates: (1) occupational employment fell outside of one standard deviation for both years; (2) occupational employment was missing for at least one year, but fell within one standard deviation for the other year; (3) occupational employment fell outside of one standard deviation for one year, but fell within one standard deviation for the other year.
 - Of the 127 occupations that utilized special base-employment, 118 met at least one of the conditions. These occupations were grown by Florida’s Total Resident Population growth rate.
 - The remaining 9 occupations that failed to meet one of the conditions were independently reviewed and assigned variable population growth rates.
 - For the remaining 705 occupations that utilized standard base employment, 556 occupations met either the first or second condition. These occupations were grown by their respective Florida Economic Estimating Conference growth rates and Florida Demographic Estimating Conference growth rates as adopted by the October 2022 Labor Market Estimating Conference, albeit updated with most recent data. For those occupations that were previously treated with a unique growth rate, Florida’s Total Resident Population growth rate was used.
 - For the remaining 149 occupations that failed to meet one of the conditions, 130 occupations were independently reviewed and assigned variable population growth rates. The final 19 occupations maintained the previous unique growth rate adopted at the October 2022 Labor Market Estimating Conference.
 - All teaching and healthcare occupations were designated for independent review, and the Legislators occupation kept static, regardless of their outcomes in the standard deviation analysis.

Areas of Concern...

After supply and demand were independently modeled, an analysis was performed to identify those occupations that could potentially be in undersupply in the final year of the forecast horizon. For details, see below.

Occupational Areas of Concern (by educational requirement)

These occupations were identified by comparing occupational supply and demand in the 10th year of the forecast to determine where projected demand exceeds expected supply by more than 10%. Essentially, this condition means that (1) demand exceeds supply currently and will continue to do so in the future, or (2) the growth in future demand will outpace the likely labor supply for that occupation. These findings were produced by a model run that simulated occupation’s employment supply and demand trajectories over the forecast period. The overall methodology:

- Used current occupational shares of the labor supply against the forecast adopted by the Florida Economic Estimating Conference for all future years.
- Selected a base year of potential demand from a maximum of five nonconsecutive years, using the assumption that demand must equal or exceed filled jobs. The base was then grown by various growth rates (predominately population driven).

Although, some occupations have both limited supply and demand, the analysis found that there is reason to believe that a significant gap in supply will exist for 101 out of 832 discrete occupations (12.1%). Note that evolving or emerging trends have yet to be addressed. As such,

this analysis does not alter the existing economic structure, meaning the results represent foundational imbalances that would be expected to persist into the future, absent intervention.

Sources

Occupational Taxonomy – Codes and Titles...

In certain instances, occupational codes and titles were used in this analysis from the US Department of Labor, Bureau of Labor Statistics, Standard Occupational Classification System and the National Employment Matrix Occupational Coverage, BLS Office of Occupational Statistics and Employment Projections (<https://www.bls.gov/soc/home.htm>). The 2018 Standard Occupational Classification (SOC) was used as the base year OEWS data in this analysis.

The 2018 Standard Occupational Classification (SOC) system is a federal statistical standard used by federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data. All workers are classified into one of 867 detailed occupations according to their occupational definition. Excluding the military occupations, there are 848 civilian occupations. To facilitate classification, detailed occupations are combined to form 459 broad occupations, 98 minor groups, and 23 major groups. Detailed occupations in the SOC with similar job duties, and in some cases skills, education, and/or training, are grouped together. This analysis focuses on the 22 civilian occupational groups and excludes military occupations (major group 55). To reflect changes in the economy and the nature of work, the SOC is revised on a 10-year cycle.

The 2018 SOC taxonomy with the 848 civilian occupations is the starting point. However, data are not yet available for 28 of these detailed occupations. Instead, BLS published aggregated data for 12 occupations representing the 28 detailed occupations, resulting in a total of 832 occupations with published data in this analysis.

The 2018 taxonomy replaces the 2019 OEWS hybrid taxonomy used in prior Labor Market Estimating Conferences.

Employment by Occupation...

- State Occupational Employment and Wage Estimates, US Department of Labor, Bureau of Labor Statistics, https://www.bls.gov/oes/current/oes_fl.htm.
- Florida Department of Economic Opportunity, Bureau of Workforce Statistics and Economic Research, [OES Occupational Employment Statistics and Wages - FloridaJobs.org](https://www.floridajobs.org/oes).

The Occupational Employment and Wage Statistics (OEWS) survey is a national semiannual survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. It is the most detailed public source of occupational data available in terms of both occupational nomenclature and local geographies. OEWS estimates are constructed from a sample of about 1.1 million national establishments. Each year, two semiannual panels of approximately 180,000 to 185,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, internet or other electronic means, email, telephone, or personal visit. The May 2020 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2020, November 2019, May 2019, November 2018, May 2018, and November 2017. The unweighted sampled employment of 83 million across all six semiannual panels represents approximately 56% of total national employment. In Florida, the OEWS survey draws its sample from state Reemployment Assistance (unemployment insurance) files. This

data source excludes the self-employed since they are not subject to the Reemployment Assistance tax and the OEWS does not collect data on them. The Florida sample for OEWS is slightly less than 11,000 units (establishments) per survey panel and approximately 66,000 total units over the six panels comprising the data used to publish the annual release.

National self-employment factors were applied to occupational employment based on data from the US Department of Labor, Bureau of Labor Statistics. These factors expand the occupational employment estimates to account for the self-employed. Some occupations, such as barbers and real estate brokers, tend to have more self-employed or sole proprietors (unincorporated businesses) than others. Wages for the OEWS survey are straight-time, gross pay, exclusive of premium pay. Base rate; cost-of-living allowances; guaranteed pay; hazardous-duty pay; incentive pay, including commissions and production bonuses; and tips are included. Excluded are overtime pay, severance pay, shift differentials, nonproduction bonuses, employer cost for supplementary benefits, and tuition reimbursements.

In order to combine the panels, wage data collected over the span of the three years is updated to the current panel's reference period using the BLS Employment Cost Index (ECI). Wages for the current panel need no further adjustment. The wage updating procedure adjusts each detailed occupation's wage rate, as measured in the earlier panel, according to the average movement of its broader occupational division. For more information on the methodology, please see https://www.bls.gov/oes/current/oes_tec.htm.

Employment Estimates from IMPLAN...

IMPLAN (www.implan.com) is a proprietary economic modeling platform that combines a set of extensive databases, economic factors, multipliers, and demographic statistics with a highly refined modeling system. IMPLAN is based on an input-output economic model. Input-output analysis is a form of economic analysis based on the interdependencies between economic sectors. Input-output is commonly used to estimate the impacts of "shocks" to an economy and to analyze their resulting ripple effects. IMPLAN data contains 546 sectors representing all private industries in the United States as defined by the North American Industry Classification System (NAICS) codes. Employment, employee compensation, industry expenditures, commodity demands, relationships between industries, and more are collected to form IMPLAN's ever-growing database.

Florida SkillsEngine CIP to SOC Crosswalk...

Florida SkillsEngine, a subcontractor of PAIRIN Inc., created a new CIP to SOC crosswalk under contract with the Florida Department of Education using data from the National Center for Education Statistics (NCES). PAIRIN describes the crosswalk as follows: "The Classification of Instructional Programs (CIP) provides a taxonomic scheme that supports the accurate tracking and reporting of fields of study and program completions activity. The value of a CIP to SOC crosswalk is to demonstrate the connection between the world of work and the world of education using CIP programs and SOC occupational titles as functional proxies. These proxies are imperfect representations of their respective 'worlds', each with inherently different qualities, organizational constructs, and clearing mechanisms. The ultimate goal of a CIP to SOC crosswalk is to draw a reasonable association between these two worlds so the educational community can, if it chooses, demonstrate or plan to offer programs-of-study aligned with existing or future labor market demand."