



BUREAU OF BUSINESS  
& ECONOMIC RESEARCH



# Defining Albuquerque's Creative Economy: Quantitative Methodology

Prepared for the City of Albuquerque Arts & Culture Department

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# Arts & Culture Definition

This document is a companion to the “Albuquerque’s Creative Economy” study released January 2026. This document outlines how the industry data was reviewed and assessed as part of Creative Economy. In the future, researchers can use this detailed approach for comparisons.

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## Definition

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The creative economy is a broad term for the economic ecosystem of for-profit and nonprofit creative industries, artists, artisans, educators, entrepreneurs, vendors, policymakers, and funders that produce and support creativity and distribute artistic-based goods and services. The creative economy centers the use of ideas and intellectual property which add value to goods and services in either unique or traditional ways. A combination of skill, talent, knowledge, expertise, and/or inspiration are essential to the creative economy.

More specifically, core arts and cultural production industries are the originators of ideas, content, and commodities associated with the creation of arts and culture. Furthermore, the supporting industries are ones that cultivate, reinforce, and disseminate arts and cultural products.<sup>1</sup>

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## Applying the Creative Definition

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The following four examples demonstrate specific employment situations and how we applied the creative economy definition.

An actor working in a theater company is part of the creative economy. Specifically, an actor uses skill and talent in their work. The theater company is engaged in producing and presenting creative content. The outcome of the actor in a theater company is identified as artistic and culturally relevant and part of the creative economy.

Next, we apply the creative definition to a more complex economic situation. Take a custodian working at a museum. This occupation is important in providing clean inviting environment that assists the museum in presenting creative content, art and culture. While the occupation is not necessarily part of the creative economy, the museum presenting art and cultural content is definitely part of the creative economy. In this case, we want to count the custodian in their supporting role as part of the creative economy.

On the other hand, a custodian working in a hospital, while key to keeping the hospital environment healthy for patients, is not in an occupation nor in an industry primarily engaged in originating ideas, content, and commodities of arts and culture. Both this occupation and industry are excluded from the creative economy.

Next, consider a costume designer who works at a casino. On the surface, a casino is not considered part of the creative economy. However, many casinos in New Mexico provide a place for performance arts such as music groups on tours. In this case, we count the occupation “costume designer” as creative while excluding the rest of the non-creative occupations at the casino.

To summarize, in our process of identifying economic employment and wage data we will include all employment within industries that are primarily engaged in core arts and cultural production. Industries identified as not creative and have few creative occupations will be excluded. Of industries that have portions

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<sup>1</sup> Parts of the definition are directly sourced from: <https://www.otis.edu/about/initiatives/documents/otis-college-report-creative-economy-june-2024.pdf>; <https://nasaa-arts.org/research/creative-economy/>; <https://www.americansforthearts.org/by-topic/creative-economy>. The definition was agreed to fit our purposes best by BBER staff and the CABQ A&C review committee.

that engage in the creative economy, inclusions will be made by a percentage. The percentages of industries to be included will be determined by one of two methods, either by occupation or screening out large corporations by business size.

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## Industry Considerations

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For data concerns there is no single industry labeled "Creative Economy" in the North American Industrial Classification system (NAICS). The NAICS is used by the Federal Government to collect employment and wage data; and then report it out. To determine employment and economic impact of the creative economy it is incumbent on us to apply our understanding of the creative economy definition to the NAICS. The NAICS groups businesses that produce similar goods and services though similar processes.

In 2007, BBER's report defined the following Creative Economy Categories with the respective NAICS as seen in Table 1.

*Table 1 Creative Economy 2007 Categories*

<u>CATEGORY</u>	<u>SUBSECTORS</u>	<u>NAICS</u>
<b>Advocacy</b>	Grantmakers	813211
	Business Associations	813910
	Civic and Social Organizations	813410
	Professional Organizations	813920
<b>Artisans</b>		All 31, 32 & 33
<b>Artists</b>	Independent Artists, Writers, and Performers	71151
	Musical Groups & Artists	71113
	Promoters of Performing Arts, Sports, & Similar Events with Facilities	71131
	Promoters of Performing Arts, Sports, & Similar Events without Facilities	71132
	Theater Companies & Dinner Theaters	71111
<b>Design</b>	Advertising and Related Services	All 5418
	Architectural Services	54131
	Graphic Design Services	54143
	Interior Design Services	541410
	Other Specialized Design Services	54149, 541490
<b>Education</b>	Colleges, Universities, & Professional Schools	611310
	Fine Arts Schools	611610
	Language Schools	611630
	Libraries & Archives	519120
	Other Technical & Trade Schools	611519
<b>Fairs</b>	Fairs & Festivals	
	Farmers Markets	
	NM State Fair	

	Promoters of Performing Arts, Sports, & Similar Events with Facilities	711310
<b>Media</b>	All Other Publishers	511199
	Book Publishers	511130
	Cable & Other Subscription Programming	515210
	Motion Picture & Video Distribution	512120
	Newspaper Publishers	511110
	Other Motion Picture & Video Industries	512199
	Other Sound Recording Industries	512290
	Periodical Publishers	511120
	Radio Broadcasting	515111
	Radio Stations	515112
	Sound Recording Studios	512240
	Television Broadcasting	515120
<b>Movies</b>	Motion Picture Theaters (except Drive-Ins)	512131
<b>Museums</b>	Museums	All 712110
	Zoo & Botanical Gardens	71213
<b>Retail Trade</b>		All 44 & 45
	All Other Home Furnishing Stores	442299
	Art Dealers	453920
	Book Stores	451211
	Hobby, Toy, & Game Stores	451120
	Jewelry Stores	448310
	News Dealers & News Stands	451212
	Prerecorded Tape, Compact Disc, & Record Stores	451220
	Used Merchandise Stores	453310
<b>Sports</b>	Newspapers Publishers (sports content)	511110
	Spectator Sports	7112
<b>Tourism</b>	Full Service Restaurants	722110
	Hotels (except Casino Hotels) & Motels	721110
	Travel Arrangement & Reservation Services	5615
<b>Wholesale</b>	Jewelry, Watch, Precious Stone, & Precious Metal Merchant Wholesalers	423940
	Other Miscellaneous Durable Goods Merchant Wholesalers	423990
	Piece Goods, Notions, & Other Dry Goods Merchant Wholesalers	424310

The NAICS goes through a regular evaluation process every 5 years which allows the Federal government to capture emerging industries due to technology or to provide clarification on specific industry definitions. Since we are working with these changes it's important to re-evaluate our groupings and NAICS selection processes. This happens in year ending in 2 and 7. The last revision happened in 2022.

Changes to the NAICS codes since the 2007 report include twenty-two of the industry details used. These changes included the title and/or NAICS code and definitions were changed (See table 2). Many of these changes occurred within the creative "Media" and "Retail Trade" categories or in the NAICS Information and Retail Trade sectors. The biggest change was Web Search Portals are now combined into the detailed sector 5192, "Web Search Portals, Libraries, Archives, and Other Information Services. Additionally, some of the 2007 industries were combined into a single new industry. One example is that "Radio Stations," "Television Broadcasting," and "Cable & Other Subscription Programming" were collapsed into a new NAICS code and title of "Media Streaming Distribution Services, Social Networks, and Other Media Networks and Content Providers," Further, "Book Stores" and "News Dealers & News Stands" were collapsed into "Book Retailers and News Dealers." Many of the other changes were minor code or title changes.

Table 2 Comparison 2007 to 2022 industry codes and titles.

2007 Title	2007 NAICS	Changed	New NAICS	2022 Title
All Other Home Furnishings Stores *Electronic Shopping and Mail-Order Houses *Other Direct Selling Establishments	442299 *454110 *454390	Code & title & combined	449129	All Other Home Furnishings Retailers
Jewelry Stores *Electronic Shopping and Mail-Order Houses *Other Direct Selling Establishments	448310 *454110 *454390	Code & title & combined	458310	Jewelry Retailers
Hobby, Toy, and Game Stores *Electronic Shopping and Mail-Order Houses *Other Direct Selling Establishments	451120 *454110 *454390	Code & title & combined	459120	Hobby, Toy, and Game Retailers
Book Stores News Dealers and Newsstands *Electronic Shopping and Mail-Order Houses *Other Direct Selling Establishments	451211 451212 *454110 *454390	Code & title & combined	459210	Book Retailers and News Dealers
Florists	453110	Code	4593	Florists
Office Supplies and Stationery Stores Electronic Shopping and Mail-Order Houses Other Direct Selling Establishments	453210 *454110 *454390 453220	Code & title & combined	4594	Office Supplies, Stationery, and Gift Retailers

Gift, Novelty, and Souvenir Stores				
Used Merchandise Stores *Electronic Shopping and Mail-Order Houses *Other Direct Selling Establishments	453310 *454110 *454390	Code & title & combined	459510	Used Merchandise Retailers
Art Dealers Electronic Shopping and Mail-Order Houses Other Direct Selling Establishments	453920 *454110 *454390	Code & title	4599 459920	Other Miscellaneous Store Retailers
Newspaper Publishers *Internet Publishing and Broadcasting and Web Search Portals - Internet newspaper publishers	511110 *519130	Code & combined	513110	Newspaper Publishers
Periodical Publishers *Internet Publishing and Broadcasting and Web Search Portals - Internet newspaper publishers	511120 *519130	Code & combined	513120	Periodical Publishers
Book Publishers *Internet Publishing and Broadcasting and Web Search Portals - Internet book publishers	511130 *519130	Code & combined	513130	Book Publishers
Directory and Mailing List Publishers	511140	Code	513140	Directory and Mailing List Publishers
All Other Publishers *Internet Publishing and Broadcasting and Web Search Portals - all other Internet publishers	511199 *519130	Code & combined	513199	All Other Publishers
Software Publishers	511210	Code	513210	Software Publishers
Radio Networks Radio Stations	515111 515112	Code & title & combined	516110	Radio Broadcasting Stations
Television Broadcasting	515120	Code & title	516120	Television Broadcasting Stations
Radio Networks *Television Broadcasting - television networks Cable and Other Subscription Programming News Syndicates	515111 *515120 515210 519110	Code & title & combined	516210	Media Streaming Distribution Services, Social Networks, and Other Media Networks and Content Providers

Internet Publishing and Broadcasting and Web Search *Portals - Internet broadcasting	*519130			
Wired Telecommunications Carriers	517311		5171	Wired and Wireless Telecommunications
*Wireless Telecommunications Carriers (except Satellite) - except agents for wireless telecommunications carriers	*517312		517111	
			517112	
Libraries & Archives	519120	Code & title & combined	5192	Web Search Portals, Libraries, Archives, and Other Information Services
*Internet Publishing and Broadcasting and Web Search Portals - web search portals	*519130		519210	
All Other Information Services	519190		519290	
Office Supplies, Stationery, and Gift Stores	4532	Code & title	4594	Office Supplies, Stationery, and Gift Retailers
Other Miscellaneous Store Retailers	4539	Code & title	4599	Other Miscellaneous Retailers

NAICS codes are organized in twenty industry sectors as shown in Table 3. More digits used in the NAICS code indicate a more detailed industry level. For example, "Full Service Restaurants" with code 72251 fall in the "Accommodation and Food Services," industry sector 72.

During the evaluation of which industries are creative, industry sectors using the creative economy definition were assigned a No, Yes (most of this sector), or Some (specific occupations in this sector). Table 3 also has a column indicating if the 2-digit sector has some businesses identified as creative. There are nine sectors considered to not have creative employment: Agriculture, Mining, Utilities, Transportation and Warehousing, Finance and Insurance, Real Estate, Management of Companies and Enterprises, Health Care and Social Assistance, and Public Administration. There may be some creative jobs that fall in these industries; however, predominantly we consider these industries as not part of the creative economy. There are ten sectors identified, as have some creative economy jobs and one - the Arts, Entertainment, and Recreation sector - with most of jobs in the creative economy.

Table 3 North American Industry Classification by two-digit sectors

Sector Titles	NAIC	Creative?
Total All	10	
Agriculture	11	No
Mining	21	No
Utilities	22	No

Construction	23	Some
Manufacturing	31-33	Some
Wholesale Trade	42	Some
Retail Trade	44-45	Some
Transportation/Warehousing	48-49	No
Information	51	Some
Finance/Insurance	52	No
Real Estate	53	No
Prof, Sci, & Tech Svcs	54	Some
Mgmt of Co & Enterprises	55	No
Admin. Support, Waste Mgm & Remediation Svcs	56	Some
Educational Svcs	61	Some
Health Care & Social Assist.	62	No
Arts, Entertainment, & Recreation (excluding sports)	71	Yes
Accommodation & Food Svcs	72	Some
Other Services (except Public Admin)	81	Some
Public Admin	92	No

The following table 4 lists the Creative Economy 12 groupings with the definitions that are being used when evaluating industry codes within the NAICS system for the 2025 Creative Economy report.

*Table 4 Creative Category and Definition*

<b>Creative Category</b>	<b>Definition</b>
Advocacy	This creative group is important to promote recognition of the impacts of the creative economy sector as well as funding to support this sector. Nonprofit and grantmaking businesses will fall in this category.
Artisans	This creative group has skilled trades, especially ones that involve making things by and or in a traditional way.
Artists	Artists are the backbone of the creative economy. This creative group includes industries where artists are directly supported in producing art.
Design	This creative group includes industries that have jobs that create meaningful new forms.
Education	This creative group provides opportunities for learning about art, learning creative skills, and accessing content.
Fairs\Festivals	This creative group provides events where creative products can be purchased and/or experienced.
Media	This creative group produces and delivers content based on ideas and value-added products and often includes intellectual property.
Museums, Historical Sites, and Similar Institutions	This industry/creative group presents creative content, art, and culture.
Retail Trade	This industry/creative group includes businesses who sale merchandise to the public. Selected detailed industries are ones where a significant focus would be towards the sale of creative outputs. Sectors such as Department Stores are excluded.
Sports	While this sector was included in the prior report, this round we will not be including this industry as review of national arts & culture literature did not include this. We do note that sports activities do have other forms of entertainment presented as part of spectator sport experiences such as music and half-time presentations. These activities are likely captured in the fairs or artists category.
Tourism	This creative group allows for the sharing of art and culture. NM sees a significant amount of tourism that specifically is interested in our unique culture.
Wholesale	This industry/creative group is an intermediate step in the sale of goods and services. In general, sales are made from the wholesaler to other businesses as supplies used in their production process and is a supporting industry.

In the 2007 report, the employment data was calculated using all of Manufacturing, Retail Trade and Full Service Restaurants. The feeling was not all these industry sectors are part of the creative economy. Therefore, for this report we will use the creative definition and apply it to the detailed industries in the sectors. A final item, we are using only a portion of Accommodation and Food Services as it can be assigned using the same methodology as in other industries.

## Creative Categories, Industries and Evaluation Statement

The following table is a list of the industries used in the 2025 Creative Economy report. It is organized by Creative Categories. The table includes the title, NAICS 4-digit code, creative percent of that industry, and the evaluation statement for including that specific NAICS by that percent. There are 57 individual NAICS codes included. For this round of the Creative Economy review, the 4-digit NAICS have been used as there is less suppressed industry employment data. The employment data being used is Bureau of Labor Statistics Quarterly Census Employment and Wage (QCEW).

The QCEW 4-digit employment data do include some employment not fitting our creative economy definition. To remove employment not associated with the Creative Economy we will allocate a percentage of the employment as "creative." The creative percent is based on one of three methods: 1) The most used method to calculate the percent of creative economy is industry based on NAICS ratios at the six-digit level from QCEW data,<sup>2</sup> 2) creative occupation employment,<sup>3</sup> and 3) business size class to exclude large commercial enterprises.<sup>4</sup>

Note this report added eight new industries compared to the 2007 report. The added industries were based on the creative economy definition adopted by the City of Albuquerque. The eight industries are denoted by an asterisk "\*" in the table 5 below.

Table 5 Proposed list of Creative Economy

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
Advocacy			<b>This creative group is important to promote recognition of the impacts of the creative economy sector as well as funding to support this sector. Nonprofit and grantmaking businesses will fall in this category.</b>
Grantmaking and Giving Services	8132	52%	Using just 813211 grantmaking services excluding 813212 Religious orgs, 813212 Voluntary Health orgs, and 813219 other grantmaking and giving services. If we limit even further to creative occupations then according to OEWS would be 6.3%.
Social Advocacy Organizations	8133	10%	813311 Human Rights advocacy; 813312 Environmental, Conservation and Wildlife Org and, 813319 Other social advocacy orgs are

<sup>2</sup> Bureau of Labor Statistics <https://www.bls.gov/cew/downloadable-data-files.htm> Quarterly Census of Employment and Wages CSVs By Industry Annual Averages.

<sup>3</sup> Bureau of Labor Statistics Occupational Employment and Wage Statistics (OEWS), using occupational ratios <https://data.bls.gov/oes/#/indOcc/Multiple%20occupations%20for%20one%20industry> May 2023 or New Mexico Department of Workforce Solutions (NMDWS) occupational projection staffing patterns for 2022.

<sup>4</sup> Quarterly Workforce Indicators (QWI) Explorer application, U.S. Census Bureau, <https://qwexplorer.ces.census.gov/#x=0&q=0> most current Quarter available generally 2023Q3 or Q4. Ratio of 0 to 19 employees to total employment or of less than 50 employment.

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			important and may tangentially assist the creative economy but is not specific enough to the creative economy for inclusion. For this industry we turned to OEWS with 10%.
Civic and Social Organizations	8134	13.9%	The definition for 813410 includes such establishments as Ethnic associations, Booster clubs, and Parent-teacher associations. Some of these organizations provide a place for performances and art. By occupation, 4% are creative according to OEWS.
Business, Professional, Labor, Political, and Similar Organizations	8139	16%	NAICS 813920 Professional organizations includes creative professional groups for artists and creative occupations. Using OEWS this would drop to 6.6%.
<b>-Artisans</b>			<b>This creative group has skilled trades, especially ones that involves making things by and or in a traditional way.</b>
* Foundation, Structure, and Building Exterior Contractors	2381	22.7%	This industry includes Masonry, Glass and Glazing Contractors. Occupations such as Stonemasons are required to have critical thinking skills and knowledge of design techniques ( <a href="https://www.onetonline.org/link/summary/47-2022.00">https://www.onetonline.org/link/summary/47-2022.00</a> ). The Glass and Glazing industry includes decorative and stained glass. In 2023 for NM, Masonry (23814) and Glass and Glazing (23815) occupations had 21% of the employment in industry 2381 according to OEWS. Expanding to include the other creative occupations and this goes to 22.7%
* Building Finishing Contractors	2383	36%	This industry includes Tile and Terrazzo Contractors & Finishing Carpentry Contractors & Other Building Finishing Contractors. Tile setters' tasks include installing decorative wall, mural, and floor designs and determining how to make patterns ( <a href="https://www.onetonline.org/link/summary/47-2044.00">https://www.onetonline.org/link/summary/47-2044.00</a> ).  Terrazzo workers apply decorative masonry finishes ( <a href="https://www.onetonline.org/link/summary/47-2053.00">https://www.onetonline.org/link/summary/47-2053.00</a> ).  Carpenters require knowledge of design techniques, tool, and principles ( <a href="https://www.onetonline.org/link/summary/47-2031.00">https://www.onetonline.org/link/summary/47-2031.00</a> ). Carpentry involved in museum exhibits is found under Other Building Finishing

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			Contractors. Statewide NAICS 23832,23833,23834,23839. Source: These occupations account for 41% of these industries according to OEWS.
Sugar and Confectionery Product Manufacturing (inc. Chocolate)	3113	100%	The output of this industry is creative and often artistic. Using QWI data all business in this industry in New Mexico are small business employing less than 20 people. (Source: U.S. Census Bureau, QWI)
Bakeries and Tortilla Manufacturing	3118	34%	Includes artisan bakeries and tortillas. Using QWI ratios for NM, only small businesses are included. If only OEWS data are considered then 22.2%
Beverage Manufacturing	3121	33%	This industry group comprises establishments primarily engaged in manufacturing soft drinks and ice; purifying and bottling water; and manufacturing brewery, winery, and distillery products. Many of these products are developed with an artisanal approach. Using QWI ratios for NM, only small businesses are included.
Printing and Related Support Activities	3231	63%	This Includes commercial printing, books, and support activities that are dependent on the literary and visual arts i.e. creative output. Using QWI ratios for NM, only small businesses are included.
Clay Product and Refractory Manufacturing	3271	100%	This industry includes handmade clay products like art tiles. All NM Business in this industry fall below 50 employees.
Glass and Glass Product Manufacturing	3272	20%	This industry includes art glass studios. Using QWI for NM, only small businesses are included.
Architectural and Structural Metals Manufacturing	3323	61%	Ornamental and architectural metal products, which required skilled artisans and designers, are about 61% of this industry's employees in 2023. Using OEWS would be 14.9%.
Manufacturing and Reproducing Magnetic and Optical Media	3346	100%	This industry manufactures blank recording media and produces pre-recorded CDs, tapes and records. All NM businesses fall below 20 employees in this industry in QWI. Using OEWS would be 17%

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
Office Furniture (including Fixtures) Manufacturing	3372	100%	This is included because making furniture requires design, craftsmanship, and creative skills. All business fall below 50 employees in this industry in QWI. Using OEWS would be 31%.
Other Miscellaneous Manufacturing	3399	50%	Research into the 6 digit codes under 3399 indicates 339910 jewelry and silverware; 339930 dolls, toys and games; 339992 musical instruments manufacturing employing about 50% of the people working in this industry in 2023 QCEW. Looking at just OEWS the percent would be 7.4.
Personal and Household Goods Repair and Maintenance	8114	16%	This includes reupholster and furniture repair and the repair of footwear and leather goods, which are 16% of the employees in this industry in 2023 QCEW. If using OEWS then 16.7%.
Personal care services	8121	100%	Cosmetology, barber, beauty and nail salons fall in this sector. These are primarily small employers.
Other Personal Services	8129	35.5%	Photofinishing has 1% of the employees in this industry group in 2023 QCEW. However, OEWS has 35.5%
<b>Artists</b>			<b>Artists are the backbone of the creative economy. This creative group includes industries where artists are directly supported in producing art.</b>
Performing arts companies	<b>7111</b>	100%	This industry produces and presents creative content and employees artists. Detailed industries are 711120 Dance Companies, 711140 Musical Groups and Artist, and 711190 Other performing Arts companies.
Promoters of Performing Arts, Sports, and Similar Events with Facilities	7113	100%	This industry promotes art events.
Agents and managers for public figures	7114	100%	This industry represents creative people such as actors. Because employment is so small; 6 people in 2023 QCEW, all of this group is included for the creative economy.
Independent artists, writers, and performers	7115	100%	This industry produces and presents creative content and specifically is defined as artists.

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
* Gambling industries	7132	3.4%	The gambling industry provides a venue for music & standup comedy acts and other types of live entertainment that are part of the creative economy. We want to recognize that it does exist and assess a small part of this industry at 3.4%, which is based on OEWS occupation employment data.
<b>Design</b>			<b>This creative group includes industries that have jobs that create meaningful new forms.</b>
Architectural, Engineering, and Related Services	5413	12.4%	This industry is included because the occupations require creative thinking for design and new ideas. Richard Florida includes them in the class of workers that create meaningful new forms. Included are 54131 Architectural services, 54132 Landscape Architectural, 541330 Engineering Services, and 541340 Drafting. Using QCEW 2023 industry employment numbers this would be 84%. If OEWS is used then 12.4%.
* Specialized Design Services	5414	100%	The focus of this industry includes 541410 interior, 541420 industrial, and 541430 graphic design. The industries in this sector create new forms. OEWS has 47.8% by occupations
* Computer Systems Design and Related Services	5415	34.6%	This industry includes 541511 custom computer programming and 541512 Computer Systems Design Services, which are developed by skilled creative individuals seeking and designing new solutions. Excluded in this 541 NAICS is 541513 Computer Facilities Management Services. QCEW 2023 Then this is 32%. Using OEWS occupations account for 34.6%
Advertising, Public Relations, and Related Services	5418	26.5%	This industry produces creative content and involves many creative skills. Only 541810 Advertising Agencies were included. QCEW 2023 for 23%. OEWS has 26.5% by occupations
Other Professional, Scientific, and Technical Services	5419	21%	This industry includes 541921 photographic studios, 541922 commercial photography. Excluding the 541910 market research; 541930 translation & interpretation. 54194 Veterinary services would give 21% using QCEW 2023. OEWS has 12% by occupation.
<b>Education</b>			<b>This creative group provides opportunities for learning creative skills and accessing content.</b>

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
** Web Search Portals, Libraries, Archives, and Other Information Services( formerly 5191 Other Information Services)	5192	100%	This industry is related to the literary arts and graphic presentation of information. This is composed of 519210 Libraries and archives; and 519290 Web search portals and all other information services. Occupations include advertising, computer system designers, librarians, graphic art designers, writers and editors, OEWS has 39.2%.
Colleges, Universities, & Professional Schools	6113	14%	This industry provides training and courses in fine arts. Using OEWS data - Art Teachers and Librarians are about 14%.
Technical and Trade Schools	6115	9%	611511 cosmetology and barbering, which require design skills, have 9% of the employees in this industry in 2023 QCEW. Using OEWS this would be 6%.
Other Schools and Instruction	6116	36%	611610 Fine arts school are in this industry group. In 2023, they employed 28% of this industry's employees QCEW. This industry by OEWS occupation data has 36%
<b>Fairs/Festivals</b>			<b>This creative group provides events where creative products can be purchased.</b>
Promoters of Performing Arts, Sports, and Similar Events with Facilities	7113	27.2%	This industry is about promoting and putting on performing arts and other events. Fairs, festivals, concerts, farmers markets, NM stare fair and other events include creative presentations and the sale of handcrafted goods. It also includes sports with no way to easily break that out by industry. OEWS occupation data has 27.2%.
<b>Media</b>			<b>This creative group produces and delivers content based on ideas and value added products.</b>
Motion Picture and Video Industries	5121	100%	Produces creative products and exhibits them. Within this industry group are 12110 Motion picture and video production; Motion picture and video distribution; Motion picture theaters, 512132 Drive-in motion picture theaters; Teleproduction and other postproduction services; 512199 Other motion picture and video industries. If OEWS data is used then 59.9%.
Sound Recording Industries	5122	100%	Produces creative products. Within this industry group are 512230 Music publishers; 512240Sund Recording Studios; 512250 Record

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			production and distribution; and 512290 Other sound recording industries. If OEWS data is used then 38.7%
Newspaper, Periodical, Book, and Directory Publishers	5131	100%	This industry relies on writers and designers to develop content and produces written material that meets the creative definition. If OEWS data is used then 38.2%
Software Publishers	5132	100%	Software publishers rely on creative and skilled individuals to develop ideas and programming for new software. In addition, many software packages include graphics, and gaming software certainly requires creative skills. Read <a href="https://admissions.yale.edu/bulldogs-blogs/stella/2021/03/07/mythbusters-computer-science-edition-cs-creative-field">https://admissions.yale.edu/bulldogs-blogs/stella/2021/03/07/mythbusters-computer-science-edition-cs-creative-field</a> If OEWS data is used then 36.9%.
Radio and Television Broadcasting	5161	100%	Produces and delivers creative products. If OEWS data is used then 50.6%.
Media Streaming Distribution Services, Social Networks, and Other Media Networks and Content Providers	5162	100%	Produces and delivers creative products. If OEWS data is used then 50.1%.
Telecommunications Wired and Wireless Telecommunications (except Satellite)	<b>517</b> <b>5171</b>	8.9%	This industry enables the distribution of creative content to smartphones and other devices. Occupations in this industry that are creative account for 8.9% of employment. OEWS.
<b>Museums, Historical Sites, and Similar Institutions</b>	7121	100%	<b>This industry/creative group presents creative content, art and culture.</b>
<b>-Retail Trade</b>			<b>This industry/creative group includes business who sale merchandise to the public. Selected detailed industries are ones where a significant focus is towards the sale of creative outputs. Sectors such as Department Stores are excluded.</b>
Furniture and Home Furnishings Retailers	4491	39%	This industry group comprises establishments primarily engaged in retailing new furniture and home furnishings. Establishments in this industry group may provide incidental services, including interior decorating, product assembly, installation, or repair services. To determine what percent that may be, we used the average employment of the small business (0-19 employees) as a percentage of the whole (Source: U.S. Census Bureau, Center for

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			<p>Economic Studies, LEHD QWI)  <a href="https://qwiexplorer.ces.census.gov/static/explore.html#x=0&amp;g=0">https://qwiexplorer.ces.census.gov/static/explore.html#x=0&amp;g=0</a></p> <p>2023Q3 at 39%. OEWS, occupation data would put this at 5.2%.</p>
Jewelry, Luggage, and Leather Goods Stores	4583	97%	Jewelry stores sell products that require creative skills. In 2023 jewelry stores at the six-digit, level employed 97% of the employees in this industry. By OEWS occupation data this would be 9.9%
Sporting Goods, Hobby, and Musical Instrument Stores	4591	43%	This industry includes the sale of materials and tools for creative activities such as ceramics and sewing; it also includes musical instruments and supplies. The detailed industries used include 45912 Hobby, Toy, and Game Retailers; 45913 Sewing, needlework, and piece goods retailers; and 459140 Musical instrument and supplies retailers. These businesses at the six-digit level employ 43% of the total in 2023. By OEWS occupation data this would be 4.1%.
Book Stores and News Dealers	4592	100%	This industry sells products that depend on writers and designers. In 2023, there were 15 establishments and employment was not disclosed for the Albuquerque MSA. An estimated 106 employees based on a ratio of Albuquerque MAS to State employment is used for the calculations. By OEWS occupation data this would be 0.6%.
* Florists	4593	100%	Florists sell artistically designed products. By OEWS occupation data this would be 45%.
Office Supplies, Stationery, and Gift Stores	4594	38%	<p>Members of this industry include 459420 Gift, novelty, and souvenir stores as well as 459410 Office supply stores. Small businesses that often carry local artist products such as jewelry or cards, and ones that decorate for seasonal items by employing window painters or other types of designers are included. To determine what percent that may be, we used the average employment of the smallest business group (0-19 employees) as a percentage of the whole (Source: U.S. Census Bureau, Center for Economic Studies, LEHD QWI)  <a href="https://qwiexplorer.ces.census.gov/static/explore.html#x=0&amp;g=0">https://qwiexplorer.ces.census.gov/static/explore.html#x=0&amp;g=0</a></p> <p>2023Q3</p>

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
Used Merchandise Stores	4595	33%	Includes the sale of creative products by Antique shops, Consignment shops, Flea markets (permanent) and music stores (used). The percentage used was business group (0-19 employees) to the whole (Source: U.S. Census Bureau, Center for Economic Studies, LEHD QWI)
Other Miscellaneous Store Retailers	4599	13%	Art dealers fall under this code. Percent by industry six digit is used. QCEW
<b>Sports</b>			<b>This creative group allows for the experience of art and culture.</b>
Spectator sports	7112	0%	While the attendance at sports events might be part of culture, the national art literature excludes this industry. Additionally, music and other forms of entertainment are presented as part of the spectator sport experience. The individuals participating are most likely captured in the Artist category. The Albuquerque MSA has 20 establishments in 2023 in this industry group and employment is not disclosed. An estimated 178 employees based on a ratio of Albuquerque MSA to State employment.
<b>Tourism</b>			<b>This creative group allows for the sharing of art and culture. NM sees a significant amount of tourism that specifically is interested in our unique culture.</b>
Traveler Accommodation	7211	3%	This industry group comprises establishments primarily engaged in providing short-term lodging in facilities, such as 721110 hotels and motels; 721120 casino hotels; and 721191 bed-and-breakfast inns. In addition to lodging, these establishments may provide a range of other services to their guests. Travelers to the Balloon Fiesta and other events utilize these businesses. However, there is also travel due to business. If we look at just occupations then only 3% would qualify. QWI has 28% are small businesses.
RV (Recreational Vehicle) Parks and Recreational Camps	7212	100%	Travelers to the Balloon Fiesta and other events utilize these businesses. In 2023, there were 11 establishments with an average employment of 61. Utilizing OEWS the percent would be 14%.
Special Food Services	7223	8%	Mobile food services, which is part of this industry, is a part of arts events as food trucks

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			become more innovative. In 2023 their employees were 8% of the total. (Note could increase % if we add 722320 Caterers). OEWS has 3% by occupation.
Drinking Places (Alcoholic Beverages)	7224	33%	This includes small craft brewing establishments and distilleries. Small Businesses make up 33%. QWI for 2023Q4. OEWS has 3% by occupation.
Restaurants and Other Eating Places	7225	1.4%	This industry is part of the creative economy because chefs are a creative occupation. Note: Chefs excludes "Fast Food Workers" and not every cook is considered to be "creating." Read <a href="https://cultishcreative.com/cooks-and-chefs/">https://cultishcreative.com/cooks-and-chefs/</a> . Utilizing OEWS by occupation 1.4%.
Other amusement and recreation industries	7139	14.2%	Much of this industry falls in Tourism such as Skiing facilities and Golf courses. Others provide activities that provide areas of cultural engagement. 14.2% is used based on 713990 six digit industry.
Travel Arrangement and Reservation Services	5615	100%	This industry includes arranging and assembling tours of cultural interest. This sector includes Travel agencies; Tour operators; and convention and visitors bureaus.
<b>Wholesale</b>			<b>This industry/creative group is an intermediate step in the sale of goods and services. In general, sales are made to other businesses as supplies used in their production process.</b>
Miscellaneous Durable Goods Merchant Wholesalers	4239	70%	Among the items this industry group sells are materials used in creative products such as hobby goods and supplies, precious stones, and precious metals. QCEW Industry details 2023 used. If OEWS is used then just 3.7%.
* Paper and Paper Product Merchant Wholesalers	4241	41%	This wholesalers group sells paper used in the printing industry. Only Stationery and office supplies merchant wholesalers where used. QCEW industry details 2023 used. Business number instead of employment as suppressed employment numbers. If OEWS is used then just 3.1%.
Apparel, Piece Goods, and Notions Merchant Wholesalers	4243	26%	This industry comprises establishments primarily engaged in the merchant wholesale distribution of piece goods, fabrics, yarns (except industrial), threads, and other notions,

Creative Category/Sector Titles	NAIC	Creative Percent	Evaluation
			and/or hair accessories. Only NAICS 424310 Piece goods, notions, and other dry goods merchant wholesalers. Used QCEW 2023. If OEWS is used then just 13.3%
* Miscellaneous Nondurable Goods Merchant Wholesalers	4249	50%	This industry includes products that require the creative skills of writing (books, periodicals, newspapers) as well as supplies for landscaping and floral design, both of which involve creative processes. Only used Book, periodical, and newspaper merchant wholesalers, Flower, nursery stock, and florists' supplies merchant wholesalers, Paint, varnish, and supplies merchant wholesalers, Other miscellaneous nondurable goods merchant wholesalers. Used QCEW 2023. Then just 3.7%
* Added industries (not included in 2007)			
** Code/Title Definition Change in NAICS			
- Industries more selective (2007 included all 31-33 and All Retail Trade)			

## Occupational Considerations

The Bureau of Labor Statistics Occupational Employment and Wages Statistics (OEWS) program data have been used to help refine assigned percentages to industries. This data is used in cases where industry alone is insufficient. The OEWS program occupations are based on the Office of Management and Budget's Standard Occupational Classification (SOC) system, which has 823 occupation titles. To help clarify which occupations are used in our analysis the following table includes the occupation code, title, and definition; and if it considered to be part of the creative economy. Of the 823 detailed occupation titles 124 are deemed to be part of the creative economy.

Table 6 Standard Occupation Classification with Creative designation

Occupation Code	Occupation Title	Occupation Definition	Creative
11-1011	Chief Executives	Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
11-1021	General and Operations Managers	Plan, direct, or coordinate the operations of public or private sector organizations, overseeing multiple departments or locations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Usually manage through subordinate supervisors. Excludes First-Line Supervisors.	No
11-1031	Legislators	Develop, introduce, or enact laws and statutes at the local, tribal, state, or federal level. Includes only workers in elected positions.	No
11-2011	Advertising and Promotions Managers	Plan, direct, or coordinate advertising policies and programs or produce collateral materials, such as posters, contests, coupons, or giveaways, to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis.	Yes
11-2021	Marketing Managers	Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.	Yes
11-2022	Sales Managers	Plan, direct, or coordinate the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers.	No
11-2032	Public Relations Managers	Plan, direct, or coordinate activities designed to create or maintain a favorable public image or raise issue awareness for their organization or client.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
11-2033	Fundraising Managers	Plan, direct, or coordinate activities to solicit and maintain funds for special projects or nonprofit organizations.	No
11-3012	Administrative Services Managers	Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, and other office support services. Medical records administrators are included in "Medical and Health Services Managers" (11-9111). Excludes "Facilities Managers" (11-3013) and "Purchasing Managers" (11-3061).	No
11-3013	Facilities Managers	Plan, direct, or coordinate operations and functionalities of facilities and buildings. May include surrounding grounds or multiple facilities of an organization's campus. Excludes "Administrative Services Managers" (11-3012), "Property, Real Estate, and Community Association Managers" (11-9141), "First-Line Supervisors of Building and Grounds Cleaning and Maintenance Workers" (37-1010), "First-Line Supervisors of Mechanics and Repairers" (49-1011), and "Maintenance and Repair Workers, General" (49-9071).	No
11-3021	Computer and Information Systems Managers	Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. Excludes "Computer Occupations" (15-1211 through 15-1299).	No
11-3031	Financial Managers	Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment. Excludes "Financial Risk Specialists" (13-2054).	No
11-3051	Industrial Production Managers	Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.	No
11-3061	Purchasing Managers	Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Includes wholesale or retail trade merchandising managers and procurement managers.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
11-3071	Transportation, Storage, and Distribution Managers	Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.	No
11-3111	Compensation and Benefits Managers	Plan, direct, or coordinate compensation and benefits activities of an organization. Job analysis and position description managers are included in "Human Resources Managers" (11-3121).	No
11-3121	Human Resources Managers	Plan, direct, or coordinate human resources activities and staff of an organization. Excludes managers who primarily focus on compensation and benefits (11-3111) and training and development (11-3131).	No
11-3131	Training and Development Managers	Plan, direct, or coordinate the training and development activities and staff of an organization.	No
11-9013	Farmers, Ranchers, and Other Agricultural Managers	Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments. May hire, train, and supervise farm workers or contract for services to carry out the day-to-day activities of the managed operation. May engage in or supervise planting, cultivating, harvesting, and financial and marketing activities. Excludes "First-Line Supervisors of Farming, Fishing, and Forestry Workers" (45-1011).	No
11-9021	Construction Managers	Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing.	No
11-9031	Education and Childcare Administrators, Preschool and Daycare	Plan, direct, or coordinate academic or nonacademic activities of preschools or childcare centers and programs, including before- and after-school care. Excludes "Preschool Teachers, Except Special Education" (25-2011) and "Childcare Workers" (39-9011).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
11-9032	Education Administrators, Kindergarten through Secondary	Plan, direct, or coordinate the academic, administrative, or auxiliary activities of kindergarten, elementary, or secondary schools.	No
11-9033	Education Administrators, Postsecondary	Plan, direct, or coordinate student instruction, administration, and services, as well as other research and educational activities, at postsecondary institutions, including universities, colleges, and junior and community colleges.	No
11-9039	Education Administrators, All Other	All education administrators not listed separately.	No
11-9041	Architectural and Engineering Managers	Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields. Excludes "Natural Sciences Managers" (11-9121).	No
11-9051	Food Service Managers	Plan, direct, or coordinate activities of an organization or department that serves food and beverages. Excludes "Chefs and Head Cooks" (35-1011).	No
11-9071	Gambling Managers	Plan, direct, or coordinate gambling operations in a casino. May formulate house rules.	No
11-9072	Entertainment and Recreation Managers, Except Gambling	Plan, direct, or coordinate entertainment and recreational activities and operations of a recreational facility, including cruise ships and parks.	Yes
11-9081	Lodging Managers	Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations. Excludes "Food Service Managers" (11-9051) in lodging establishments.	No
11-9111	Medical and Health Services Managers	Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	No
11-9121	Natural Sciences Managers	Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields. Excludes "Computer and Information Systems Managers" (11-3021) and "Architecture and Engineering Managers" (11-9041).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
11-9131	Postmasters and Mail Superintendents	Plan, direct, or coordinate operational, administrative, management, and support services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.	No
11-9141	Property, Real Estate, and Community Association Managers	Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way).	No
11-9151	Social and Community Service Managers	Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers.	No
11-9161	Emergency Management Directors	Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.	No
11-9171	Funeral Home Managers	Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise and managing the facilities of funeral homes. Excludes "Morticians, Undertakers, and Funeral Arrangers" (39-4031).	No
11-9179	Personal Service Managers, All Other	All personal service managers not listed separately. Excludes "Financial Specialists" (13-2000). Daycare Managers are included in Education and Childcare Administrators, Preschool and Daycare (11-9031).	No
11-9199	Managers, All Other	All managers not listed separately.	No
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	Represent and promote artists, performers, and athletes in dealings with current or prospective employers. May handle contract negotiation and other business matters for clients.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
13-1020	Buyers and Purchasing Agents	This occupation includes the 2018 SOC occupations 13-1021 Buyers and Purchasing Agents, Farm Products; 13-1022 Wholesale and Retail Buyers, Except Farm Products; and 13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products.	No
13-1031	Claims Adjusters, Examiners, and Investigators	Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims. Excludes "Fire Inspectors and Investigators" (33-2021).	No
13-1032	Insurance Appraisers, Auto Damage	Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs.	No
13-1041	Compliance Officers	Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere. Excludes "Financial Examiners" (13-2061), "Tax Examiners and Collectors, and Revenue Agents" (13-2081), "Occupational Health and Safety Specialists" (19-5011), "Occupational Health and Safety Technicians" (19-5012), "Transportation Security Screeners" (33-9093), "Agricultural Inspectors" (45-2011), "Construction and Building Inspectors" (47-4011), and "Transportation Inspectors" (53-6051).	No
13-1051	Cost Estimators	Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.	No
13-1071	Human Resources Specialists	Recruit, screen, interview, or place individuals within an organization. May perform other activities in multiple human resources areas. Excludes "Compensation, Benefits, and Job Analysis Specialists" (13-1141) and "Training and Development Specialists" (13-1151).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
13-1074	Farm Labor Contractors	Recruit and hire seasonal or temporary agricultural laborers. May transport, house, and provide meals for workers.	No
13-1075	Labor Relations Specialists	Resolve disputes between workers and managers, negotiate collective bargaining agreements, or coordinate grievance procedures to handle employee complaints. Excludes equal employment opportunity (EEO) officers, who are included in "Compliance Officers" (13-1041).	No
13-1081	Logisticians	Analyze and coordinate the ongoing logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Excludes "Transportation, Storage, and Distribution Managers" (11-3071) and "Project Management Specialists" (13-1082).	No
13-1082	Project Management Specialists	Analyze and coordinate the schedule, timeline, procurement, staffing, and budget of a product or service on a per project basis. Lead and guide the work of technical staff. May serve as a point of contact for the client or customer. Excludes "Management Occupations" (11-0000), "Logisticians" (13-1081), "Meeting, Convention, and Event Planners" (13-1121), and "Production, Planning, and Expediting Clerks" (43-5061).	No
13-1111	Management Analysts	Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants. Excludes "Computer Systems Analysts" (15-1211) and "Operations Research Analysts" (15-2031).	No
13-1121	Meeting, Convention, and Event Planners	Coordinate activities of staff, convention personnel, or clients to make arrangements for group meetings, events, or conventions.	No
13-1131	Fundraisers	Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. May design and produce promotional materials. May also raise awareness of the organization's work, goals, and financial needs.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
13-1141	Compensation, Benefits, and Job Analysis Specialists	Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.	No
13-1151	Training and Development Specialists	Design or conduct work-related training and development programs to improve individual skills or organizational performance. May analyze organizational training needs or evaluate training effectiveness. Excludes "Career/Technical Education Teachers, Postsecondary" (25-1194) and "Other Teachers and Instructors" (25-3000). Flight instructors are included with "Aircraft Pilots and Flight Engineers" (53-2010).	No
13-1161	Market Research Analysts and Marketing Specialists	Research conditions in local, regional, national, or online markets. Gather information to determine potential sales of a product or service, or plan a marketing or advertising campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution. May employ search marketing tactics, analyze web metrics, and develop recommendations to increase search engine ranking and visibility to target markets. Excludes "Web and Digital Interface Designers" (15-1255), "Art Directors" (27-1011), "Graphic Designers" (27-1024), and "Public Relations Specialists" (27-3031).	No
13-1199	Business Operations Specialists, All Other	All business operations specialists not listed separately.	No
13-2011	Accountants and Auditors	Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Excludes "Tax Examiners and Collectors, and Revenue Agents" (13-2081).	No
13-2020	Property Appraisers and Assessors	This occupation includes the 2018 SOC occupations 13-2022 Appraisers of Personal and Business Property and 13-2023 Appraisers and Assessors of Real Estate.	No
13-2031	Budget Analysts	Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports. Excludes "Financial and Investment Analysts" (13-2051).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
13-2041	Credit Analysts	Analyze credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with credit information for use in decisionmaking. Excludes "Financial Risk Specialists" (13-2054).	No
13-2051	Financial and Investment Analysts	Conduct quantitative analyses of information involving investment programs or financial data of public or private institutions, including valuation of businesses. Excludes "Budget Analysts" (13-2031), "Financial Risk Specialists" (13-2054), and "Securities, Commodities, and Financial Services Sales Agents" (41-3031).	No
13-2052	Personal Financial Advisors	Advise clients on financial plans using knowledge of tax and investment strategies, securities, insurance, pension plans, and real estate. Duties include assessing clients' assets, liabilities, cash flow, insurance coverage, tax status, and financial objectives. May also buy and sell financial assets for clients. Excludes "Securities, Commodities, and Financial Services Sales Agents" (41-3031).	No
13-2053	Insurance Underwriters	Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications.	No
13-2054	Financial Risk Specialists	Analyze and measure exposure to credit and market risk threatening the assets, earning capacity, or economic state of an organization. May make recommendations to limit risk. Excludes "Credit Analysts" (13-2041).	No
13-2061	Financial Examiners	Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.	No
13-2071	Credit Counselors	Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explain loan requirements or restrictions. May help develop debt management plans or student financial aid packages. May advise on credit issues, or provide budget, mortgage, bankruptcy, or student financial aid counseling.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
13-2072	Loan Officers	Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, loan underwriters, and payday loan officers.	No
13-2081	Tax Examiners and Collectors, and Revenue Agents	Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.	No
13-2082	Tax Preparers	Prepare tax returns for individuals or small businesses. Excludes "Accountants and Auditors" (13-2011).	No
13-2099	Financial Specialists, All Other	All financial specialists not listed separately.	No
15-1211	Computer Systems Analysts	Analyze science, engineering, business, and other data processing problems to develop and implement solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions, improve existing computer systems, and review computer system capabilities, workflow, and schedule limitations. May analyze or recommend commercially available software.	Yes
15-1212	Information Security Analysts	Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. Assess system vulnerabilities for security risks and propose and implement risk mitigation strategies. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses. Excludes "Computer Network Architects" (15-1241).	No
15-1221	Computer and Information Research Scientists	Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
15-1231	Computer Network Support Specialists	Analyze, test, troubleshoot, and evaluate existing network systems, such as local area networks (LAN), wide area networks (WAN), cloud networks, servers, and other data communications networks. Perform network maintenance to ensure networks operate correctly with minimal interruption. Excludes "Computer Network Architects" (15-1241) and "Network and Computer Systems Administrators" (15-1244).	No
15-1232	Computer User Support Specialists	Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, via telephone, or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Excludes "Network and Computer Systems Administrators" (15-1244).	No
15-1241	Computer Network Architects	Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning, including analysis of capacity needs for network infrastructures. May also design network and computer security measures. May research and recommend network and data communications hardware and software. Excludes "Information Security Analysts" (15-1212), "Computer Network Support Specialists" (15-1231), and "Network and Computer Systems Administrators" (15-1244).	Yes
15-1242	Database Administrators	Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. Identify, investigate, and resolve database performance issues, database capacity, and database scalability. May plan, coordinate, and implement security measures to safeguard computer databases. Excludes "Information Security Analysts" (15-1212) and "Database Architects" (15-1243).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
15-1243	Database Architects	Design strategies for enterprise databases, data warehouse systems, and multidimensional networks. Set standards for database operations, programming, query processes, and security. Model, design, and construct large relational databases or data warehouses. Create and optimize data models for warehouse infrastructure and workflow. Integrate new systems with existing warehouse structure and refine system performance and functionality. Excludes "Database Administrators" (15-1242).	Yes
15-1244	Network and Computer Systems Administrators	Install, configure, and maintain an organization's local area network (LAN), wide area network (WAN), data communications network, operating systems, and physical and virtual servers. Perform system monitoring and verify the integrity and availability of hardware, network, and server resources and systems. Review system and application logs and verify completion of scheduled jobs, including system backups. Analyze network and server resource consumption and control user access. Install and upgrade software and maintain software licenses. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. Excludes "Information Security Analysts" (15-1212), "Computer Network Support Specialists" (15-1231), and "Computer User Support Specialists" (15-1232).	No
15-1251	Computer Programmers	Create, modify, and test the code and scripts that allow computer applications to run. Work from specifications drawn up by software and web developers or other individuals. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information.	Yes
15-1252	Software Developers	Research, design, and develop computer and network software or specialized utility programs. Analyze user needs and develop software solutions, applying principles and techniques of computer science, engineering, and mathematical analysis. Update software or enhance existing software capabilities. May work with computer hardware engineers to integrate hardware and software systems, and develop specifications and performance requirements. May maintain databases within an application area, working individually or coordinating database development as part of a team.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
15-1253	Software Quality Assurance Analysts and Testers	Develop and execute software tests to identify software problems and their causes. Test system modifications to prepare for implementation. Document software and application defects using a bug tracking system and report defects to software or web developers. Create and maintain databases of known defects. May participate in software design reviews to provide input on functional requirements, operational characteristics, product designs, and schedules.	No
15-1254	Web Developers	Develop and implement websites, web applications, application databases, and interactive web interfaces. Evaluate code to ensure that it is properly structured, meets industry standards, and is compatible with browsers and devices. Optimize website performance, scalability, and server-side code and processes. May develop website infrastructure and integrate websites with other computer applications. Excludes "Special Effects Artists and Animators" (27-1014).	Yes
15-1255	Web and Digital Interface Designers	Design digital user interfaces or websites. Develop and test layouts, interfaces, functionality, and navigation menus to ensure compatibility and usability across browsers or devices. May use web framework applications as well as client-side code and processes. May evaluate web design following web and accessibility standards, and may analyze web use metrics and optimize websites for marketability and search engine ranking. May design and test interfaces that facilitate the human-computer interaction and maximize the usability of digital devices, websites, and software with a focus on aesthetics and design. May create graphics used in websites and manage website content and links. Excludes "Special Effects Artists and Animators" (27-1014) and "Graphic Designers" (27-1024).	Yes
15-1299	Computer Occupations, All Other	All computer occupations not listed separately. Excludes "Computer and Information Systems Managers" (11-3021), "Computer Hardware Engineers" (17-2061), "Electrical and Electronics Engineers" (17-2070), "Computer Science Teachers, Postsecondary" (25-1021), "Special Effects Artists and Animators" (27-1014), "Graphic Designers" (27-1024), "Health Information Technologists and Medical Registrars" (29-9021), and "Computer,	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		Automated Teller, and Office Machine Repairers" (49-2011).	
15-2011	Actuaries	Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits.	No
15-2021	Mathematicians	Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.	No
15-2031	Operations Research Analysts	Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decisionmaking, policy formulation, or other managerial functions. May collect and analyze data and develop decision support software, services, or products. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation.	No
15-2041	Statisticians	Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as biostatistics, agricultural statistics, business statistics, or economic statistics. Includes mathematical and survey statisticians. Excludes "Survey Researchers" (19-3022).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
15-2051	Data Scientists	Develop and implement a set of techniques or analytics applications to transform raw data into meaningful information using data-oriented programming languages and visualization software. Apply data mining, data modeling, natural language processing, and machine learning to extract and analyze information from large structured and unstructured datasets. Visualize, interpret, and report data findings. May create dynamic data reports. Excludes "Statisticians" (15-2041), "Cartographers and Photogrammetrists" (17-1021), and "Health Information Technologists and Medical Registrars" (29-9021).	No
15-2099	Mathematical Science Occupations, All Other	All mathematical scientists not listed separately.	No
17-1011	Architects, Except Landscape and Naval	Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. Excludes "Landscape Architects" (17-1012) and "Marine Engineers and Naval Architects" (17-2121).	Yes
17-1012	Landscape Architects	Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.	Yes
17-1021	Cartographers and Photogrammetrists	Research, study, and prepare maps and other spatial data in digital or graphic form for one or more purposes, such as legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems. May collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data.	No
17-1022	Surveyors	Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-2011	Aerospace Engineers	Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.	No
17-2021	Agricultural Engineers	Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products.	No
17-2031	Bioengineers and Biomedical Engineers	Apply knowledge of engineering, biology, chemistry, computer science, and biomechanical principles to the design, development, and evaluation of biological, agricultural, and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.	No
17-2041	Chemical Engineers	Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.	No
17-2051	Civil Engineers	Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, and geotechnical engineers. Excludes "Hydrologists" (19-2043).	No
17-2061	Computer Hardware Engineers	Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. Excludes "Software Developers" (15-1252) and "Web Developers" (15-1254).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-2071	Electrical Engineers	Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Excludes "Computer Hardware Engineers" (17-2061).	No
17-2072	Electronics Engineers, Except Computer	Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. Excludes "Computer Hardware Engineers" (17-2061).	No
17-2081	Environmental Engineers	Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.	No
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.	No
17-2112	Industrial Engineers	Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Excludes "Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).	No
17-2121	Marine Engineers and Naval Architects	Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-2131	Materials Engineers	Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Includes those engineers working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Includes metallurgists and metallurgical engineers, ceramic engineers, and welding engineers.	No
17-2141	Mechanical Engineers	Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.	No
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	Conduct subsurface surveys to identify the characteristics of potential land or mining development sites. May specify the ground support systems, processes, and equipment for safe, economical, and environmentally sound extraction or underground construction activities. May inspect areas for unsafe geological conditions, equipment, and working conditions. May design, implement, and coordinate mine safety programs. Excludes "Petroleum Engineers" (17-2171).	No
17-2161	Nuclear Engineers	Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.	No
17-2171	Petroleum Engineers	Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.	No
17-2199	Engineers, All Other	All engineers not listed separately. Excludes "Sales Engineers" (41-9031), "Locomotive Engineers" (53-4011), and "Ship Engineers" (53-5031).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-3011	Architectural and Civil Drafters	Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.	No
17-3012	Electrical and Electronics Drafters	Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.	No
17-3013	Mechanical Drafters	Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.	No
17-3019	Drafters, All Other	All drafters not listed separately.	No
17-3021	Aerospace Engineering and Operations Technologists and Technicians	Operate, install, adjust, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment, which are used to launch, track, position, and evaluate air and space vehicles. May record and interpret test data.	No
17-3022	Civil Engineering Technologists and Technicians	Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.	No
17-3023	Electrical and Electronic Engineering Technologists and Technicians	Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, adjust, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Excludes "Broadcast Technicians" (27-4012).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	Operate, test, maintain, or adjust unmanned, automated, servomechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment to observe or record visual information at sites such as oil rigs, crop fields, buildings, or for similar infrastructure, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.	No
17-3025	Environmental Engineering Technologists and Technicians	Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientists. May assist in the development of environmental remediation devices.	No
17-3026	Industrial Engineering Technologists and Technicians	Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.	No
17-3027	Mechanical Engineering Technologists and Technicians	Apply theory and principles of mechanical engineering to modify, develop, test, or adjust machinery and equipment under direction of engineering staff or physical scientists.	No
17-3028	Calibration Technologists and Technicians	Execute or adapt procedures and techniques for calibrating measurement devices, by applying knowledge of measurement science, mathematics, physics, chemistry, and electronics, sometimes under the direction of engineering staff. Determine measurement standard suitability for calibrating measurement devices. May perform preventive maintenance on equipment. May perform corrective actions to address identified calibration problems. Excludes "Medical Equipment Preparers" (31-9093) and "Timing Device Assemblers and Adjusters" (51-2061).	No
17-3029	Engineering Technologists and Technicians, Except Drafters, All Other	All engineering technologists and technicians, except drafters, not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
17-3031	Surveying and Mapping Technicians	Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist, to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of maps. Excludes "Cartographers and Photogrammetrists" (17-1021), "Surveyors" (17-1022), and "Geoscientists, Except Hydrologists and Geographers" (19-2042).	No
19-1011	Animal Scientists	Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals.	No
19-1012	Food Scientists and Technologists	Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein; discover new food sources; research ways to make processed foods safe, palatable, and healthful; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.	No
19-1013	Soil and Plant Scientists	Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants or trees, shrubs, and nursery stock, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity.	No
19-1021	Biochemists and Biophysicists	Study the chemical composition or physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. May conduct research to further understanding of the complex chemical combinations and reactions involved in metabolism, reproduction, growth, and heredity. May determine the effects of foods, drugs, serums, hormones, and other substances on tissues and vital processes of living organisms.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-1022	Microbiologists	Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.	No
19-1023	Zoologists and Wildlife Biologists	Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management. May collect and analyze biological data to determine the environmental effects of present and potential use of land and water habitats.	No
19-1029	Biological Scientists, All Other	All biological scientists not listed separately.	No
19-1031	Conservation Scientists	Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or to protect rangelands. May instruct farmers, agricultural production managers, or ranchers in best ways to use crop rotation, contour plowing, or terracing to conserve soil and water; in the number and kind of livestock and forage plants best suited to particular ranges; and in range and farm improvements, such as fencing and reservoirs for stock watering. Excludes "Zoologists and Wildlife Biologists" (19-1023) and "Foresters" (19-1032).	No
19-1032	Foresters	Manage public and private forested lands for economic, recreational, and conservation purposes. May inventory the type, amount, and location of standing timber, appraise the timber's worth, negotiate the purchase, and draw up contracts for procurement. May determine how to conserve wildlife habitats, creek beds, water quality, and soil stability, and how best to comply with environmental regulations. May devise plans for planting and growing new trees, monitor trees for healthy growth, and determine optimal harvesting schedules.	No
19-1041	Epidemiologists	Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-1042	Medical Scientists, Except Epidemiologists	Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities. Includes physicians, dentists, pharmacologists, and medical pathologists who primarily conduct research. Practitioners who primarily provide medical or dental care or dispense drugs are included in "Healthcare Diagnosing or Treating Practitioners" (29-1000).	No
19-1099	Life Scientists, All Other	All life scientists not listed separately.	No
19-2011	Astronomers	Observe, research, and interpret astronomical phenomena to increase basic knowledge or apply such information to practical problems.	No
19-2012	Physicists	Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories. Excludes "Biochemists and Biophysicists" (19-1021).	No
19-2021	Atmospheric and Space Scientists	Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Includes weather analysts and forecasters whose functions require the detailed knowledge of meteorology.	No
19-2031	Chemists	Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge. Excludes "Biochemists and Biophysicists" (19-1021) and "Geoscientists, Except Hydrologists and Geographers" (19-2042).	No
19-2032	Materials Scientists	Research and study the structures and chemical properties of various natural and synthetic or composite materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications. Includes glass scientists, ceramic scientists, metallurgical scientists, and polymer scientists.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-2041	Environmental Scientists and Specialists, Including Health	Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or public health. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources. Excludes "Zoologists and Wildlife Biologists" (19-1023), "Conservation Scientists" (19-1031), "Forest and Conservation Technicians" (19-4071), "Occupational Health and Safety Specialists" (19-5011), "Fish and Game Wardens" (33-3031), and "Forest and Conservation Workers" (45-4011).	No
19-2042	Geoscientists, Except Hydrologists and Geographers	Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and mathematics knowledge in exploration for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems. May study the Earth's internal composition, atmospheres, and oceans, and its magnetic, electrical, and gravitational forces. Includes mineralogists, paleontologists, stratigraphers, geodesists, and seismologists.	No
19-2043	Hydrologists	Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation and its rate of infiltration into the soil, movement through the earth, and return to the ocean and atmosphere.	No
19-2099	Physical Scientists, All Other	All physical scientists not listed separately.	No
19-3011	Economists	Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic and statistical data using sampling techniques and econometric methods. Excludes "Market Research Analysts and Marketing Specialists" (13-1161).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-3022	Survey Researchers	Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams. Excludes "Market Research Analysts and Marketing Specialists" (13-1161) and "Statisticians" (15-2041).	No
19-3032	Industrial-Organizational Psychologists	Apply principles of psychology to human resources, administration, management, sales, and marketing problems. Activities may include policy planning; employee testing and selection, training, and development; and organizational development and analysis. May work with management to organize the work setting to improve worker productivity.	No
19-3033	Clinical and Counseling Psychologists	Assess, diagnose, and treat mental and emotional disorders of individuals through observation, interview, and psychological tests. Help individuals with distress or maladjustment understand their problems through their knowledge of case history, interviews with patients, and theory. Provide individual or group counseling services to assist individuals in achieving more effective personal, social, educational, and vocational development and adjustment. May design behavior modification programs and consult with medical personnel regarding the best treatment for patients. Excludes "Psychiatrists" (29-1223).	No
19-3034	School Psychologists	Diagnose and implement individual or schoolwide interventions or strategies to address educational, behavioral, or developmental issues that adversely impact educational functioning in a school. May address student learning and behavioral problems and counsel students or families. May design and implement performance plans, and evaluate performance. May consult with other school-based personnel.	No
19-3039	Psychologists, All Other	All psychologists not listed separately.	No
19-3041	Sociologists	Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		influence of group activities on individual members.	
19-3051	Urban and Regional Planners	Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.	No
19-3091	Anthropologists and Archeologists	Study the origin, development, and behavior of human beings. May study the way of life, language, or physical characteristics of people in various parts of the world. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human cultures, in order to determine the history, customs, and living habits of earlier civilizations.	Yes
19-3092	Geographers	Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region, including land forms, climates, soils, plants, and animals, and conduct research on the spatial implications of human activities within a given area, including social characteristics, economic activities, and political organization, as well as researching interdependence between regions at scales ranging from local to global.	Yes
19-3093	Historians	Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, electronic media, and unpublished manuscripts, such as personal diaries and letters.	Yes
19-3094	Political Scientists	Study the origin, development, and operation of political systems. May study topics, such as public opinion, political decisionmaking, and ideology. May analyze the structure and operation of governments, as well as various political entities. May conduct public opinion surveys, analyze election results, or analyze public documents. Excludes "Survey Researchers" (19-3022).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-3099	Social Scientists and Related Workers, All Other	All social scientists and related workers not listed separately.	No
19-4012	Agricultural Technicians	Work with agricultural scientists in plant, fiber, and animal research, or assist with animal breeding and nutrition. Set up or maintain laboratory equipment and collect samples from crops or animals. Prepare specimens or record data to assist scientists in biology or related life science experiments. Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects.	No
19-4013	Food Science Technicians	Work with food scientists or technologists to perform standardized qualitative and quantitative tests to determine physical or chemical properties of food or beverage products. Includes technicians who assist in research and development of production technology, quality control, packaging, processing, and use of foods.	No
19-4021	Biological Technicians	Assist biological and medical scientists. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, collect data and samples, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.	No
19-4031	Chemical Technicians	Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.	No
19-4042	Environmental Science and Protection Technicians, Including Health	Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-4043	Geological Technicians, Except Hydrologic Technicians	Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in laboratory, exploration, and production activities to obtain data indicating resources such as metallic ore, minerals, gas, coal, or petroleum. Analyze mud and drill cuttings. Chart pressure, temperature, and other characteristics of wells or bore holes.	No
19-4044	Hydrologic Technicians	Collect and organize data concerning the distribution and circulation of ground and surface water, and data on its physical, chemical, and biological properties. Measure and report on flow rates and ground water levels, maintain field equipment, collect water samples, install and collect sampling equipment, and process samples for shipment to testing laboratories. May collect data on behalf of hydrologists, engineers, developers, government agencies, or agriculture. Excludes "Hydrologists" (19-2043).	No
19-4051	Nuclear Technicians	Assist nuclear physicists, nuclear engineers, or other scientists in laboratory, power generation, or electricity production activities. May operate, maintain, or provide quality control for nuclear testing and research equipment. May monitor radiation.	No
19-4061	Social Science Research Assistants	Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management. Excludes "Teaching Assistants, Postsecondary" (25-9044).	No
19-4071	Forest and Conservation Technicians	Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts under the direction of foresters, or train and lead forest workers in forest propagation and fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats. Excludes "Conservation Scientists" (19-1031) and "Foresters" (19-1032).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
19-4092	Forensic Science Technicians	Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry.	No
19-4099	Life, Physical, and Social Science Technicians, All Other	All life, physical, and social science technicians not listed separately.	No
19-5011	Occupational Health and Safety Specialists	Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector.	No
19-5012	Occupational Health and Safety Technicians	Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.	No
21-1012	Educational, Guidance, and Career Counselors and Advisors	Advise and assist students and provide educational and vocational guidance services.	No
21-1013	Marriage and Family Therapists	Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within the context of marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of services to individuals, couples, and families for the purpose of treating such diagnosed nervous and mental disorders. Excludes "Psychologists" (19-3032 through 19-3039) and "Social Workers" (21-1020).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
21-1015	Rehabilitation Counselors	Counsel individuals to maximize the independence and employability of persons coping with personal, social, and vocational difficulties that result from birth defects, illness, disease, accidents, aging, or the stress of daily life. Coordinate activities for residents of care and treatment facilities. Assess client needs and design and implement rehabilitation programs that may include personal and vocational counseling, training, and job placement. Excludes "Occupational Therapists" (29-1122).	No
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	This occupation includes the 2018 SOC occupations 21-1011 Substance Abuse and Behavioral Disorder Counselors and 21-1014 Mental Health Counselors.	No
21-1019	Counselors, All Other	All counselors not listed separately.	No
21-1021	Child, Family, and School Social Workers	Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers.	No
21-1022	Healthcare Social Workers	Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses. Services include advising family caregivers. Provide patients with information and counseling, and make referrals for other services. May also provide case and care management or interventions designed to promote health, prevent disease, and address barriers to access to healthcare.	No
21-1023	Mental Health and Substance Abuse Social Workers	Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs. Activities may include individual and group therapy, crisis intervention, case management, client advocacy, prevention, and education.	No
21-1029	Social Workers, All Other	All social workers not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
21-1091	Health Education Specialists	Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Use data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments. May link health systems, health providers, insurers, and patients to address individual and population health needs. May serve as resource to assist individuals, other health professionals, or the community, and may administer fiscal resources for health education programs. Excludes "Community Health Workers" (21-1094).	No
21-1092	Probation Officers and Correctional Treatment Specialists	Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Make recommendations for actions involving formulation of rehabilitation plan and treatment of offender, including conditional release and education and employment stipulations.	No
21-1093	Social and Human Service Assistants	Assist other social and human service providers in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services. May assist social workers with developing, organizing, and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation, or dependent care. Excludes "Rehabilitation Counselors" (21-1015), "Psychiatric Technicians" (29-2053), "Personal Care Aides" (31-1122), and "Eligibility Interviewers, Government Programs" (43-4061).	No
21-1094	Community Health Workers	Promote health within a community by assisting individuals to adopt healthy behaviors. Serve as an advocate for the health needs of individuals by assisting community residents in effectively communicating with healthcare providers or social service agencies. Act as liaison or advocate and implement programs that promote, maintain, and improve individual and overall community health. May deliver health-related preventive services such as blood pressure, glaucoma, and hearing screenings. May collect data to help identify community health needs.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		Excludes "Health Education Specialists" (21-1091).	
21-1099	Community and Social Service Specialists, All Other	All community and social service specialists not listed separately.	No
21-2011	Clergy	Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.	No
21-2021	Directors, Religious Activities and Education	Coordinate or design programs and conduct outreach to promote the religious education or activities of a denominational group. May provide counseling, guidance, and leadership relative to marital, health, financial, and religious problems.	No
21-2099	Religious Workers, All Other	All religious workers not listed separately.	No
23-1011	Lawyers	Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.	No
23-1012	Judicial Law Clerks	Assist judges in court or by conducting research or preparing legal documents. Excludes "Lawyers" (23-1011) and "Paralegals and Legal Assistants" (23-2011).	No
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters. Determine liability, sanctions, or penalties, or recommend the acceptance or rejection of claims or settlements. Excludes "Arbitrators, Mediators, and Conciliators" (23-1022).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
23-1022	Arbitrators, Mediators, and Conciliators	Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.	No
23-1023	Judges, Magistrate Judges, and Magistrates	Arbitrate, advise, adjudicate, or administer justice in a court of law. May sentence defendant in criminal cases according to government statutes or sentencing guidelines. May determine liability of defendant in civil cases. May perform wedding ceremonies.	No
23-2011	Paralegals and Legal Assistants	Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action. Excludes "Legal Secretaries and Administrative Assistants" (43-6012).	No
23-2093	Title Examiners, Abstractors, and Searchers	Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies. Excludes "Loan Officers" (13-2072).	No
23-2099	Legal Support Workers, All Other	All legal support workers not listed separately.	No
25-1011	Business Teachers, Postsecondary	Teach courses in business administration and management, such as accounting, finance, human resources, labor and industrial relations, marketing, and operations research. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1021	Computer Science Teachers, Postsecondary	Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
25-1022	Mathematical Science Teachers, Postsecondary	Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1031	Architecture Teachers, Postsecondary	Teach courses in architecture and architectural design, such as architectural environmental design, interior architecture/design, and landscape architecture. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1032	Engineering Teachers, Postsecondary	Teach courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Includes teachers of subjects such as chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Computer Science Teachers, Postsecondary" (25-1021).	No
25-1041	Agricultural Sciences Teachers, Postsecondary	Teach courses in the agricultural sciences. Includes teachers of agronomy, dairy sciences, fisheries management, horticultural sciences, poultry sciences, range management, and agricultural soil conservation. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Forestry and Conservation Science Teachers, Postsecondary" (25-1043).	No
25-1042	Biological Science Teachers, Postsecondary	Teach courses in biological sciences. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1043	Forestry and Conservation Science Teachers, Postsecondary	Teach courses in forestry and conservation science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Agricultural Science Teachers, Postsecondary" (25-1041) and "Environmental Science Teachers, Postsecondary" (25-1053).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	Teach courses in the physical sciences, except chemistry and physics. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research.	No
25-1052	Chemistry Teachers, Postsecondary	Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include providing instruction in the methods of qualitative and quantitative chemical analysis. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research. Excludes "Biological Science Teachers, Postsecondary" (25-1042) who teach biochemistry.	No
25-1053	Environmental Science Teachers, Postsecondary	Teach courses in environmental science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Forestry and Conservation Science Teachers, Postsecondary" (25-1043).	No
25-1054	Physics Teachers, Postsecondary	Teach courses pertaining to the laws of matter and energy. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1061	Anthropology and Archeology Teachers, Postsecondary	Teach courses in anthropology or archeology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	Teach courses pertaining to the culture and development of an area, an ethnic group, or any other group, such as Latin American studies, women's studies, or urban affairs. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1063	Economics Teachers, Postsecondary	Teach courses in economics. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1064	Geography Teachers, Postsecondary	Teach courses in geography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-1065	Political Science Teachers, Postsecondary	Teach courses in political science, international affairs, and international relations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1066	Psychology Teachers, Postsecondary	Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1067	Sociology Teachers, Postsecondary	Teach courses in sociology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1069	Social Sciences Teachers, Postsecondary, All Other	All postsecondary social sciences teachers not listed separately.	No
25-1071	Health Specialties Teachers, Postsecondary	Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy, and veterinary medicine. Excludes "Biological Science Teachers, Postsecondary" (25-1042) and "Nursing Instructors and Teachers, Postsecondary" (25-1072) who teach medical science.	No
25-1072	Nursing Instructors and Teachers, Postsecondary	Demonstrate and teach patient care in classroom and clinical units to nursing students. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1081	Education Teachers, Postsecondary	Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education, and teaching English as a second language. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1082	Library Science Teachers, Postsecondary	Teach courses in library science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	Teach courses in criminal justice, corrections, and law enforcement administration. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-1112	Law Teachers, Postsecondary	Teach courses in law. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1113	Social Work Teachers, Postsecondary	Teach courses in social work. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1121	Art, Drama, and Music Teachers, Postsecondary	Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1122	Communications Teachers, Postsecondary	Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1123	English Language and Literature Teachers, Postsecondary	Teach courses in English language and literature, including linguistics and comparative literature. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1124	Foreign Language and Literature Teachers, Postsecondary	Teach languages and literature courses in languages other than English. Includes teachers of American Sign Language (ASL). Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1125	History Teachers, Postsecondary	Teach courses in human history and historiography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1126	Philosophy and Religion Teachers, Postsecondary	Teach courses in philosophy, religion, and theology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	Yes
25-1192	Family and Consumer Sciences Teachers, Postsecondary	Teach courses in childcare, family relations, finance, nutrition, and related subjects pertaining to home management. Includes both teachers primarily engaged in teaching and	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		those who do a combination of teaching and research.	
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.	No
25-1194	Career/Technical Education Teachers, Postsecondary	Teach vocational courses intended to provide occupational training below the baccalaureate level in subjects such as construction, mechanics/repair, manufacturing, transportation, or cosmetology, primarily to students who have graduated from or left high school. Teaching takes place in public or private schools whose primary business is academic or vocational education. Excludes "Training and Development Specialists" (13-1151), "Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors" (25-3011), and postsecondary teachers classified elsewhere in the 25-1000 minor group. Flight instructors are included with "Aircraft Pilots and Flight Engineers" (53-2010).	No
25-1199	Postsecondary Teachers, All Other	All postsecondary teachers not listed separately.	No
25-2011	Preschool Teachers, Except Special Education	Instruct preschool-aged students, following curricula or lesson plans, in activities designed to promote social, physical, and intellectual growth. Excludes "Special Education Teachers" (25-2050), "Substitute Teachers, Short-Term" (25-3031), and "Childcare Workers" (39-9011).	No
25-2012	Kindergarten Teachers, Except Special Education	Teach academic and social skills to kindergarten students. Excludes "Special Education Teachers" (25-2050) and "Substitute Teachers, Short-Term" (25-3031).	No
25-2021	Elementary School Teachers, Except Special Education	Teach academic and social skills to students at the elementary school level. Excludes "Special Education Teachers" (25-2050) and "Substitute Teachers, Short-Term" (25-3031).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Teach one or more subjects to students at the middle, intermediate, or junior high school level. Excludes "Career/Technical Education Teachers, Middle School" (25-2023), "Special Education Teachers" (25-2050), and "Substitute Teachers, Short Term" (25-3031).	No
25-2023	Career/Technical Education Teachers, Middle School	Teach occupational, vocational, career, or technical subjects to students at the middle, intermediate, or junior high school level. Excludes "Special Education Teachers" (25-2050) and "Substitute Teachers, Short-Term" (25-3031).	No
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Teach one or more subjects to students at the secondary school level. Excludes "Career/Technical Education Teachers, Secondary School" (25-2032), "Special Education Teachers" (25-2050), and "Substitute Teachers, Short-Term" (25-3031).	No
25-2032	Career/Technical Education Teachers, Secondary School	Teach occupational, vocational, career, or technical subjects to students at the secondary school level. Excludes "Special Education Teachers" (25-2050), and "Substitute Teachers, Short-Term" (25-3031).	No
25-2051	Special Education Teachers, Preschool	Teach academic, social, and life skills to preschool-aged students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities. Excludes "Substitute Teachers, Short-Term" (25-3031).	No
25-2052	Special Education Teachers, Kindergarten and Elementary School	This occupation includes the 2018 SOC occupations 25-2055 Special Education Teachers, Kindergarten and 25-2056 Special Education Teachers, Elementary School.	No
25-2057	Special Education Teachers, Middle School	Teach academic, social, and life skills to middle school students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities. Excludes "Substitute Teachers, Short-Term" (25-3031).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-2058	Special Education Teachers, Secondary School	Teach academic, social, and life skills to secondary school students with learning, emotional, or physical disabilities. Includes teachers who specialize and work with students who are blind or have visual impairments; students who are deaf or have hearing impairments; and students with intellectual disabilities. Excludes "Substitute Teachers, Short-Term" (25-3031).	No
25-2059	Special Education Teachers, All Other	All special education teachers not listed separately.	No
25-3011	Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors	Teach or instruct out-of-school youths and adults in basic education, literacy, or English as a Second Language classes, or in classes for earning a high school equivalency credential.	No
25-3021	Self-Enrichment Teachers	Teach or instruct individuals or groups for the primary purpose of self-enrichment or recreation, rather than for an occupational objective, educational attainment, competition, or fitness. Excludes "Coaches and Scouts" (27-2022) and "Exercise Trainers and Group Fitness Instructors" (39-9031). Flight instructors are included with "Aircraft Pilots and Flight Engineers" (53-2010).	Yes
25-3031	Substitute Teachers, Short-Term	Teach students on a short-term basis as a temporary replacement for a regular classroom teacher, typically using the regular teacher's lesson plan. Excludes long-term substitute teachers who perform all the duties of a regular teacher; these teachers are coded within the 25-1000 or 25-2000 minor groups.	No
25-3041	Tutors	Instruct individual students or small groups of students in academic subjects to support formal class instruction or to prepare students for standardized or admissions tests. Excludes "Postsecondary Teachers" (25-1000), "Elementary, Middle, Secondary, and Special Education Teachers" (25-2000), "Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors" (25-3011), and "Self-Enrichment Teachers" (25-3021).	No
25-3099	Teachers and Instructors, All Other	All teachers and instructors not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
25-4011	Archivists	Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.	Yes
25-4012	Curators	Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.	Yes
25-4013	Museum Technicians and Conservators	Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals; or artifacts, textiles, or art. May identify and record objects or install and arrange them in exhibits. Includes book or document conservators.	Yes
25-4022	Librarians and Media Collections Specialists	Administer and maintain libraries or collections of information, for public or private access through reference or borrowing. Work in a variety of settings, such as educational institutions, museums, and corporations, and with various types of informational materials, such as books, periodicals, recordings, films, and databases. Tasks may include acquiring, cataloging, and circulating library materials, and user services such as locating and organizing information, providing instruction on how to access information, and setting up and operating a library's media equipment.	Yes
25-4031	Library Technicians	Assist librarians by helping readers in the use of library catalogs, databases, and indexes to locate books and other materials; and by answering questions that require only brief consultation of standard reference. Compile records; sort and shelve books or other media; remove or repair damaged books or other media; register patrons; and check materials in and out of the circulation process. Replace materials in shelving area (stacks) or files. Includes bookmobile drivers who assist with providing services in mobile libraries.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
25-9021	Farm and Home Management Educators	Instruct and advise individuals and families engaged in agriculture, agricultural-related processes, or home management activities. Demonstrate procedures and apply research findings to advance agricultural and home management activities. May develop educational outreach programs. May instruct on either agricultural issues such as agricultural processes and techniques, pest management, and food safety, or on home management issues such as budgeting, nutrition, and child development. Excludes "Dietitians and Nutritionists" (29-1031).	No
25-9031	Instructional Coordinators	Develop instructional material, coordinate educational content, and incorporate current technology into instruction in order to provide guidelines to educators and instructors for developing curricula and conducting courses. May train and coach teachers. Includes educational consultants and specialists, and instructional material directors.	No
25-9044	Teaching Assistants, Postsecondary	Assist faculty or other instructional staff in postsecondary institutions by performing instructional support activities, such as developing teaching materials, leading discussion groups, preparing and giving examinations, and grading examinations or papers. Graduate students who teach one or more full courses should be classified in the 25-1000 minor group.	No
25-9045	Teaching Assistants, Except Postsecondary	This occupation includes the 2018 SOC occupations 25-9042 Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education; 25-9043 Teaching Assistants, Special Education; and 25-9049 Teaching Assistants, All Other.	No
25-9099	Educational Instruction and Library Workers, All Other	All educational instruction and library workers not listed separately.	Yes
27-1011	Art Directors	Formulate design concepts and presentation approaches for visual productions and media, such as print, broadcasting, video, and film. Direct workers engaged in artwork or layout design. Excludes "Set and Exhibit Designers" (27-1027).	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
27-1012	Craft Artists	Create or reproduce handmade objects for sale and exhibition using a variety of techniques, such as welding, weaving, pottery, and needlecraft.	Yes
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Create original artwork using any of a wide variety of media and techniques.	Yes
27-1014	Special Effects Artists and Animators	Create special effects or animations using film, video, computers, or other electronic tools and media for use in products, such as computer games, movies, music videos, and commercials.	Yes
27-1019	Artists and Related Workers, All Other	All artists and related workers not listed separately.	Yes
27-1021	Commercial and Industrial Designers	Design and develop manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.	Yes
27-1022	Fashion Designers	Design clothing and accessories. Create original designs or adapt fashion trends.	Yes
27-1023	Floral Designers	Design, cut, and arrange live, dried, or artificial flowers and foliage.	Yes
27-1024	Graphic Designers	Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. Excludes "Web and Digital Interface Designers" (15-1255).	Yes
27-1025	Interior Designers	Plan, design, and furnish the internal space of rooms or buildings. Design interior environments or create physical layouts that are practical, aesthetic, and conducive to the intended purposes. May specialize in a particular field, style, or phase of interior design. Excludes "Merchandise Displayers and Window Trimmers" (27-1026).	Yes
27-1026	Merchandise Displayers and Window Trimmers	Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
27-1027	Set and Exhibit Designers	Design special exhibits and sets for film, video, television, and theater productions. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles.	Yes
27-1029	Designers, All Other	All designers not listed separately.	Yes
27-2011	Actors	Play parts in stage, television, radio, video, or film productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing.	Yes
27-2012	Producers and Directors	Produce or direct stage, television, radio, video, or film productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.	Yes
27-2021	Athletes and Sports Competitors	Compete in athletic events.	Yes
27-2022	Coaches and Scouts	Instruct or coach groups or individuals in the fundamentals of sports for the primary purpose of competition. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition. Those required to hold teaching certifications should be reported in the appropriate teaching category. Excludes "Athletic Trainers" (29-9091).	No
27-2023	Umpires, Referees, and Other Sports Officials	Officiate at competitive athletic or sporting events. Detect infractions of rules and decide penalties according to established regulations. Includes all sporting officials, referees, and competition judges.	No
27-2031	Dancers	Perform dances. May perform on stage, for broadcasting, or for video recording.	Yes
27-2032	Choreographers	Create new dance routines. Rehearse performance of routines. May direct and stage presentations.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
27-2041	Music Directors and Composers	Conduct, direct, plan, and lead instrumental or vocal performances by musical artists or groups, such as orchestras, bands, choirs, and glee clubs; or create original works of music.	Yes
27-2042	Musicians and Singers	Play one or more musical instruments or sing. May perform on stage, for broadcasting, or for sound or video recording.	Yes
27-2091	Disc Jockeys, Except Radio	Play prerecorded music for live audiences at venues or events such as clubs, parties, or wedding receptions. May use techniques such as mixing, cutting, or sampling to manipulate recordings. May also perform as emcee (master of ceremonies). Radio disc jockeys are included in "Broadcast Announcers and Radio Disc Jockeys" (27-3011). Excludes "Musicians and Singers" (27-2042), "Audio and Video Technicians" (27-4011), and "Sound Engineering Technicians" (27-4014).	Yes
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	All entertainers and performers, sports and related workers not listed separately.	Yes
27-3011	Broadcast Announcers and Radio Disc Jockeys	Speak or read from scripted materials, such as news reports or commercial messages, on radio, television, or other communications media. May play and queue music, announce artist or title of performance, identify station, or interview guests. Excludes "News Analysts, Reporters, and Journalists" (27-3023).	Yes
27-3023	News Analysts, Reporters, and Journalists	Narrate or write news stories, reviews, or commentary for print, broadcast, or other communications media such as newspapers, magazines, radio, or television. May collect and analyze information through interview, investigation, or observation.	Yes
27-3031	Public Relations Specialists	Promote or create an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media. May specialize in using social media.	No
27-3041	Editors	Plan, coordinate, revise, or edit written material. May review proposals and drafts for possible publication.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
27-3042	Technical Writers	Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.	Yes
27-3043	Writers and Authors	Originate and prepare written material, such as scripts, stories, advertisements, and other material. Excludes "News Analysts, Reporters, and Journalists" (27-3023), "Public Relations Specialists" (27-3031), and "Technical Writers" (27-3042).	Yes
27-3091	Interpreters and Translators	Interpret oral or sign language, or translate written text from one language into another.	No
27-3092	Court Reporters and Simultaneous Captioners	Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers.	No
27-3099	Media and Communication Workers, All Other	All media and communication workers not listed separately.	Yes
27-4011	Audio and Video Technicians	Set up, maintain, and dismantle audio and video equipment, such as microphones, sound speakers, connecting wires and cables, sound and mixing boards, video cameras, video monitors and servers, and related electronic equipment for live or recorded events, such as concerts, meetings, conventions, presentations, podcasts, news conferences, and sporting events. Excludes "Sound Engineering Technicians" (27-4014), "Lighting Technicians" (27-4015), and "Audiovisual Equipment Installers and Repairers" (49-2097).	Yes
27-4012	Broadcast Technicians	Set up, operate, and maintain the electronic equipment used to acquire, edit, and transmit audio and video for radio or television programs. Control and adjust incoming and outgoing broadcast signals to regulate sound volume, signal strength, and signal clarity. Operate satellite, microwave, or other transmitter equipment to broadcast radio or television programs.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
27-4014	Sound Engineering Technicians	Assemble and operate equipment to record, synchronize, mix, edit, or reproduce sound, including music, voices, or sound effects, for theater, video, film, television, podcasts, sporting events, and other productions. Excludes "Audio and Video Technicians" (27-4011).	Yes
27-4015	Lighting Technicians	Set up, maintain, and dismantle light fixtures, lighting control devices, and the associated lighting electrical and rigging equipment used for photography, television, film, video, and live productions. May focus or operate light fixtures, or attach color filters or other lighting accessories. Excludes "Audio and Video Technicians" (27-4011).	Yes
27-4021	Photographers	Photograph people, landscapes, merchandise, or other subjects. May use lighting equipment to enhance a subject's appearance. May use editing software to produce finished images and prints. Includes commercial and industrial photographers, scientific photographers, and photojournalists. Excludes "Camera Operators, Television, Video, and Film" (27-4031).	Yes
27-4031	Camera Operators, Television, Video, and Film	Operate television, video, or film camera to record images or scenes for television, video, or film productions.	Yes
27-4032	Film and Video Editors	Edit moving images on film, video, or other media. May work with a producer or director to organize images for final production. May edit or synchronize soundtracks with images. Excludes "Sound Engineering Technicians" (27-4014).	Yes
27-4099	Media and Communication Equipment Workers, All Other	All media and communication equipment workers not listed separately.	Yes
29-1011	Chiropractors	Assess, treat, and care for patients by manipulation of spine and musculoskeletal system. May provide spinal adjustment or address sacral or pelvic misalignment.	No
29-1021	Dentists, General	Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums. May treat diseases of nerve, pulp, and other dental tissues affecting oral hygiene and retention of teeth. May fit dental appliances or provide preventive care. Excludes "Oral and Maxillofacial Surgeons" (29-1022), "Orthodontists" (29-1023),	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		"Prosthodontists" (29-1024), and "Dentists, All Other Specialists" (29-1029).	
29-1022	Oral and Maxillofacial Surgeons	Perform surgery and related procedures on the hard and soft tissues of the oral and maxillofacial regions to treat diseases, injuries, or defects. May diagnose problems of the oral and maxillofacial regions. May perform surgery to improve function or appearance.	No
29-1023	Orthodontists	Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.	No
29-1024	Prosthodontists	Diagnose, treat, rehabilitate, design, and fit prostheses that maintain oral function, health, and appearance for patients with clinical conditions associated with teeth, oral and maxillofacial tissues, or the jaw.	No
29-1029	Dentists, All Other Specialists	All dentists not listed separately.	No
29-1031	Dietitians and Nutritionists	Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.	No
29-1041	Optometrists	Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions. Ophthalmologists are included in "Ophthalmologists, Except Pediatric" (29-1241).	No
29-1051	Pharmacists	Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		practitioners on the selection, dosage, interactions, and side effects of medications.	
29-1071	Physician Assistants	Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants. Excludes "Registered Nurses" (29-1141), "Nurse Anesthetists" (29-1151), "Nurse Midwives" (29-1161), "Nurse Practitioners" (29-1171), "Emergency Medical Technicians" (29-2042), "Paramedics" (29-2043), "Surgical Assistants" (29-9093), and "Medical Assistants" (31-9092).	No
29-1081	Podiatrists	Diagnose and treat diseases and deformities of the human foot.	No
29-1122	Occupational Therapists	Assess, plan, and organize rehabilitative programs that help build or restore vocational, homemaking, and daily living skills, as well as general independence, to persons with disabilities or developmental delays. Use therapeutic techniques, adapt the individual's environment, teach skills, and modify specific tasks that present barriers to the individual. Excludes "Rehabilitation Counselors" (21-1015).	No
29-1123	Physical Therapists	Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.	No
29-1124	Radiation Therapists	Provide radiation therapy to patients as prescribed by a radiation oncologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-1125	Recreational Therapists	Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and crafts. May assess a patient condition and recommend appropriate recreational activity. Excludes "Recreation Workers" (39-9032).	No
29-1126	Respiratory Therapists	Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.	No
29-1127	Speech-Language Pathologists	Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.	No
29-1128	Exercise Physiologists	Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility. Excludes "Physical Therapists" (29-1123), "Athletic Trainers" (29-9091), and "Exercise Trainers and Group Fitness Instructors" (39-9031).	No
29-1129	Therapists, All Other	All therapists not listed separately.	Yes
29-1131	Veterinarians	Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals.	No
29-1141	Registered Nurses	Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required. Includes Clinical Nurse Specialists. Excludes "Nurse Anesthetists" (29-1151), "Nurse Midwives" (29-1161), and "Nurse Practitioners" (29-1171).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-1151	Nurse Anesthetists	Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.	No
29-1161	Nurse Midwives	Diagnose and coordinate all aspects of the birthing process, either independently or as part of a healthcare team. May provide well-woman gynecological care. Must have specialized, graduate nursing education.	No
29-1171	Nurse Practitioners	Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. May order, perform, or interpret diagnostic tests such as lab work and x rays. May prescribe medication. Must be registered nurses who have specialized graduate education.	No
29-1181	Audiologists	Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.	No
29-1211	Anesthesiologists	Administer anesthetics and analgesics for pain management prior to, during, or after surgery.	No
29-1212	Cardiologists	Diagnose, treat, manage, and prevent diseases or conditions of the cardiovascular system. May further subspecialize in interventional procedures (e.g., balloon angioplasty and stent placement), echocardiography, or electrophysiology.	No
29-1213	Dermatologists	Diagnose and treat diseases relating to the skin, hair, and nails. May perform both medical and dermatological surgery functions.	No
29-1214	Emergency Medicine Physicians	Make immediate medical decisions and act to prevent death or further disability. Provide immediate recognition, evaluation, care, stabilization, and disposition of patients. May direct emergency medical staff in an emergency department.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-1215	Family Medicine Physicians	Diagnose, treat, and provide preventive care to individuals and families across the lifespan. May refer patients to specialists when needed for further diagnosis or treatment. Excludes "General Internal Medicine Physicians" (29-1216) and "Pediatricians, General" (29-1221).	No
29-1216	General Internal Medicine Physicians	Diagnose and provide nonsurgical treatment for a wide range of diseases and injuries of internal organ systems. Provide care mainly for adults and adolescents, and are based primarily in an outpatient care setting. Excludes "Family Medicine Physicians" (29-1215) and "Pediatricians, General" (29-1221).	No
29-1217	Neurologists	Diagnose, manage, and treat disorders and diseases of the brain, spinal cord, and peripheral nerves, with a primarily nonsurgical focus.	No
29-1218	Obstetricians and Gynecologists	Provide medical care related to pregnancy or childbirth. Diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general care to women. May perform both medical and gynecological surgery functions.	No
29-1221	Pediatricians, General	Diagnose, treat, and help prevent diseases and injuries in children. May refer patients to specialists for further diagnosis or treatment, as needed. Excludes "Family Medicine Physicians" (29-1215) and "General Internal Medicine Physicians" (29-1216).	No
29-1222	Physicians, Pathologists	Diagnose diseases and conduct lab tests using organs, body tissues, and fluids. Includes medical examiners.	No
29-1223	Psychiatrists	Diagnose, treat, and help prevent mental disorders. Excludes "Clinical and Counseling Psychologists" (19-3033) and "School Psychologists" (19-3034).	No
29-1224	Radiologists	Diagnose and treat diseases and injuries using medical imaging techniques, such as x rays, magnetic resonance imaging (MRI), nuclear medicine, and ultrasounds. May perform minimally invasive medical procedures and tests.	No
29-1229	Physicians, All Other	All physicians not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-1241	Ophthalmologists, Except Pediatric	Diagnose and perform surgery to treat and help prevent disorders and diseases of the eye. May also provide vision services for treatment including glasses and contacts. Excludes "Optometrists" (29-1041) and "Pediatric Surgeons" (29-1243).	No
29-1242	Orthopedic Surgeons, Except Pediatric	Diagnose and perform surgery to treat and prevent rheumatic and other diseases in the musculoskeletal system. Excludes "Pediatric Surgeons" (29-1243).	No
29-1243	Pediatric Surgeons	Diagnose and perform surgery to treat fetal abnormalities and birth defects, diseases, and injuries in fetuses, premature and newborn infants, children, and adolescents. Includes all pediatric surgical specialties and subspecialties. Excludes "Oral and Maxillofacial Surgeons" (29-1022), "Ophthalmologists, Except Pediatric" (29-1241), and "Orthopedic Surgeons, Except Pediatric" (29-1242).	No
29-1249	Surgeons, All Other	All surgeons not listed separately. Excludes "Oral and Maxillofacial Surgeons" (29-1022).	No
29-1291	Acupuncturists	Diagnose, treat, and prevent disorders by stimulating specific acupuncture points within the body using acupuncture needles. May also use cups, nutritional supplements, therapeutic massage, acupressure, and other alternative health therapies. Excludes "Chiropractors" (29-1011).	No
29-1292	Dental Hygienists	Administer oral hygiene care to patients. Assess patient oral hygiene problems or needs and maintain health records. Advise patients on oral health maintenance and disease prevention. May provide advanced care such as providing fluoride treatment or administering topical anesthesia.	No
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other	All healthcare diagnosing or treating practitioners not listed separately.	No
29-2010	Clinical Laboratory Technologists and Technicians	This occupation includes the 2018 SOC occupations 29-2011 Medical and Clinical Laboratory Technologists and 29-2012 Medical and Clinical Laboratory Technicians.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-2031	Cardiovascular Technologists and Technicians	Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic, therapeutic, or research purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests.	No
29-2032	Diagnostic Medical Sonographers	Produce ultrasonic recordings of internal organs for use by physicians. Includes vascular technologists. Excludes "Cardiovascular Technologists and Technicians" (29-2031).	No
29-2033	Nuclear Medicine Technologists	Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques.	No
29-2034	Radiologic Technologists and Technicians	Take x-rays and CAT scans or administer nonradioactive materials into patient's bloodstream for diagnostic or research purposes. Includes radiologic technologists and technicians who specialize in other scanning modalities. Excludes "Diagnostic Medical Sonographers" (29-2032) and "Magnetic Resonance Imaging Technologists" (29-2035).	No
29-2035	Magnetic Resonance Imaging Technologists	Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously. May interview patient, explain MRI procedures, and position patient on examining table. May enter into the computer data such as patient history, anatomical area to be scanned, orientation specified, and position of entry.	No
29-2036	Medical Dosimetrists	Generate radiation treatment plans, develop radiation dose calculations, communicate and supervise the treatment plan implementation, and consult with members of radiation oncology team.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-2042	Emergency Medical Technicians	Assess injuries and illnesses and administer basic emergency medical care. May transport injured or sick persons to medical facilities. Excludes "Paramedics" (29-2043), "Firefighters" (33-2011), and "Ambulance Drivers and Attendants, Except Emergency Medical Technicians" (53-3011).	No
29-2043	Paramedics	Administer basic or advanced emergency medical care and assess injuries and illnesses. May administer medication intravenously, use equipment such as EKGs, or administer advanced life support to sick or injured individuals. Excludes "Emergency Medical Technicians" (29-2042) and "Ambulance Drivers and Attendants, Except Emergency Medical Technicians" (53-3011).	No
29-2051	Dietetic Technicians	Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.	No
29-2052	Pharmacy Technicians	Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.	No
29-2053	Psychiatric Technicians	Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.	No
29-2055	Surgical Technologists	Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeons' assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments. Excludes "Surgical Assistants" (29-9093).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-2056	Veterinary Technologists and Technicians	Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. May assist a veterinarian during surgery.	No
29-2057	Ophthalmic Medical Technicians	Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.	No
29-2061	Licensed Practical and Licensed Vocational Nurses	Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.	No
29-2072	Medical Records Specialists	Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the healthcare system. Classify medical and healthcare concepts, including diagnosis, procedures, medical services, and equipment, into the healthcare industry's numerical coding system. Includes medical coders. Excludes "Health Information Technologists and Medical Registrars" (29-9021) and "File Clerks" (43-4071).	No
29-2081	Opticians, Dispensing	Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with inserting, removing, and caring for contact lenses. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription. Prepare work order for optical laboratory containing instructions for grinding and mounting lenses in frames. Verify exactness of finished lens spectacles. Adjust frame and lens position to fit client. May shape or reshape frames. Includes contact lens opticians.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
29-2091	Orthotists and Prosthetists	Design, measure, fit, and adapt orthopedic braces, appliances or prostheses, such as limbs or facial parts for patients with disabling conditions.	No
29-2092	Hearing Aid Specialists	Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds. Excludes "Audiologists" (29-1181).	No
29-2099	Health Technologists and Technicians, All Other	All health technologists and technicians not listed separately.	No
29-9021	Health Information Technologists and Medical Registrars	Apply knowledge of healthcare and information systems to assist in the design, development, and continued modification and analysis of computerized healthcare systems. Abstract, collect, and analyze treatment and followup information of patients. May educate staff and assist in problem solving to promote the implementation of the healthcare information system. May design, develop, test, and implement databases with complete history, diagnosis, treatment, and health status to help monitor diseases. Excludes "Medical Records Specialists" (29-2072).	No
29-9091	Athletic Trainers	Evaluate and treat musculoskeletal injuries or illnesses. Provide preventive, therapeutic, emergency, and rehabilitative care. Excludes "Physical Therapists" (29-1123).	No
29-9092	Genetic Counselors	Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to other healthcare providers or to individuals and families concerned with the risk of inherited conditions. Advise individuals and families to support informed decisionmaking and coping methods for those at risk. May help conduct research related to genetic conditions or genetic counseling.	No
29-9093	Surgical Assistants	Assist in operations, under the supervision of surgeons. May, in accordance with state laws, help surgeons to make incisions and close surgical sites, manipulate or remove tissues, implant surgical devices or drains, suction the surgical site, place catheters, clamp or cauterize vessels or tissue, and apply dressings to surgical	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		site. Excludes "Registered Nurses" (29-1141) and "Surgical Technologists" (29-2055).	
29-9099	Healthcare Practitioners and Technical Workers, All Other	All healthcare practitioners and technical workers not listed separately.	No
31-1120	Home Health and Personal Care Aides	This occupation includes the 2018 SOC occupations 31-1121 Home Health Aides and 31-1122 Personal Care Aides.	No
31-1131	Nursing Assistants	Provide or assist with basic care or support under the direction of onsite licensed nursing staff. Perform duties such as monitoring of health status, feeding, bathing, dressing, grooming, toileting, or ambulation of patients in a health or nursing facility. May include medication administration and other health-related tasks. Includes nursing care attendants, nursing aides, and nursing attendants. Excludes "Home Health Aides" (31-1121), "Personal Care Aides" (31-1122), "Orderlies" (31-1132), and "Psychiatric Aides" (31-1133).	No
31-1132	Orderlies	Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds. May maintain stocks of supplies or clean and transport equipment. Excludes "Nursing Assistants" (31-1131). Psychiatric orderlies are included in "Psychiatric Aides" (31-1133).	No
31-1133	Psychiatric Aides	Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from examinations and treatments. May restrain violent patients. Includes psychiatric orderlies.	No
31-2011	Occupational Therapy Assistants	Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with state laws, assist in development of treatment plans, carry out routine functions, direct activity programs,	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		and document the progress of treatments. Generally requires formal training.	
31-2012	Occupational Therapy Aides	Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.	No
31-2021	Physical Therapist Assistants	Assist physical therapists in providing physical therapy treatments and procedures. May, in accordance with state laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment, and modify specific treatments in accordance with patient status and within the scope of treatment plans established by a physical therapist. Generally requires formal training.	No
31-2022	Physical Therapist Aides	Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing the patient and the treatment area.	No
31-9011	Massage Therapists	Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.	No
31-9091	Dental Assistants	Perform limited clinical duties under the direction of a dentist. Clinical duties may include equipment preparation and sterilization, preparing patients for treatment, assisting the dentist during treatment, and providing patients with instructions for oral healthcare procedures. May perform administrative duties such as scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
31-9092	Medical Assistants	Perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician. Excludes "Physician Assistants" (29-1071).	No
31-9093	Medical Equipment Preparers	Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.	No
31-9094	Medical Transcriptionists	Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form. Edit as necessary and return reports in either printed or electronic form for review and signature, or correction.	No
31-9095	Pharmacy Aides	Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.	No
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment. May provide routine postoperative care, administer medication orally or topically, or prepare samples for laboratory examination under the supervision of veterinary or laboratory animal technologists or technicians, veterinarians, or scientists. Excludes "Animal Caretakers" (39-2021).	No
31-9097	Phlebotomists	Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
31-9099	Healthcare Support Workers, All Other	All healthcare support workers not listed separately.	No
33-1011	First-Line Supervisors of Correctional Officers	Directly supervise and coordinate activities of correctional officers and jailers.	No
33-1012	First-Line Supervisors of Police and Detectives	Directly supervise and coordinate activities of members of police force.	No
33-1021	First-Line Supervisors of Firefighting and Prevention Workers	Directly supervise and coordinate activities of workers engaged in firefighting and fire prevention and control.	No
33-1091	First-Line Supervisors of Security Workers	Directly supervise and coordinate activities of security workers and security guards.	No
33-1099	First-Line Supervisors of Protective Service Workers, All Other	All protective service supervisors not listed separately above.	No
33-2011	Firefighters	Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.	No
33-2021	Fire Inspectors and Investigators	Inspect buildings to detect fire hazards and enforce local ordinances and state laws, or investigate and gather facts to determine cause of fires and explosions.	No
33-2022	Forest Fire Inspectors and Prevention Specialists	Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.	No
33-3011	Bailiffs	Maintain order in courts of law.	No
33-3012	Correctional Officers and Jailers	Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.	No
33-3021	Detectives and Criminal Investigators	Conduct investigations related to suspected violations of federal, state, or local laws to	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		prevent or solve crimes. Excludes "Private Detectives and Investigators" (33-9021).	
33-3031	Fish and Game Wardens	Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.	No
33-3041	Parking Enforcement Workers	Patrol assigned area, such as public parking lot or city streets to issue tickets to overtime parking violators and illegally parked vehicles.	No
33-3051	Police and Sheriff's Patrol Officers	Maintain order and protect life and property by enforcing local, tribal, state, or federal laws and ordinances. Perform a combination of the following duties: patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts. Includes police officers working at educational institutions.	No
33-3052	Transit and Railroad Police	Protect and police railroad and transit property, employees, or passengers.	No
33-9011	Animal Control Workers	Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.	No
33-9021	Private Detectives and Investigators	Gather, analyze, compile, and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment.	No
33-9031	Gambling Surveillance Officers and Gambling Investigators	Observe gambling operation for irregular activities such as cheating or theft by either employees or patrons. Investigate potential threats to gambling assets such as money, chips, and gambling equipment. Act as oversight and security agent for management and customers.	No
33-9032	Security Guards	Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. May operate x-ray and metal detector equipment. Excludes "Police Officers" (33-3050) and "Transportation Security Screeners" (33-9093).	No
33-9091	Crossing Guards and Flaggers	Guide or control vehicular or pedestrian traffic at such places as streets, schools, railroad crossings, or construction sites.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	Monitor recreational areas, such as pools, beaches, or ski slopes, to provide assistance and protection to participants.	No
33-9093	Transportation Security Screeners	Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.	No
33-9094	School Bus Monitors	Maintain order among students on a school bus. Duties include helping students safely board and exit and communicating behavioral problems. May perform pretrip and posttrip inspections and prepare for and assist in emergency evacuations.	No
33-9099	Protective Service Workers, All Other	All protective service workers not listed separately.	No
35-1011	Chefs and Head Cooks	Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts.	Yes
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	Directly supervise and coordinate activities of workers engaged in preparing and serving food.	No
35-2011	Cooks, Fast Food	Prepare and cook food in a fast food restaurant with a limited menu. Duties of these cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment.	No
35-2012	Cooks, Institution and Cafeteria	Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias.	No
35-2013	Cooks, Private Household	Prepare meals in private homes. Includes personal chefs.	No
35-2014	Cooks, Restaurant	Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
35-2015	Cooks, Short Order	Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables. Excludes "Cooks, Fast Food" (35-2011).	No
35-2019	Cooks, All Other	All cooks not listed separately.	No
35-2021	Food Preparation Workers	Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.	No
35-3011	Bartenders	Mix and serve drinks to patrons, directly or through waitstaff.	No
35-3023	Fast Food and Counter Workers	Perform duties such as taking orders and serving food and beverages. Serve customers at counter or from a steam table. May take payment. May prepare food and beverages. Counter attendants who also wait tables are included in "Waiters and Waitresses" (35-3031),	No
35-3031	Waiters and Waitresses	Take orders and serve food and beverages to patrons at tables in dining establishment. Excludes "Fast Food and Counter Workers" (35-3023).	No
35-3041	Food Servers, Nonrestaurant	Serve food to individuals outside of a restaurant environment, such as in hotel rooms, hospital rooms, residential care facilities, or cars. Excludes "Fast Food and Counter Workers" (35-3023) and "Door-to-Door Sales Workers, News and Street Vendors, and Related Workers" (41-9091).	No
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	Facilitate food service. Clean tables; remove dirty dishes; replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food; and serve items such as water, condiments, and coffee to patrons.	No
35-9021	Dishwashers	Clean dishes, kitchen, food preparation equipment, or utensils.	No
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
35-9099	Food Preparation and Serving Related Workers, All Other	All food preparation and serving related workers not listed separately.	No
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.	No
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. Work may involve reviewing contracts to ascertain service, machine, and workforce requirements; answering inquiries from potential customers regarding methods, material, and price ranges; and preparing estimates according to labor, material, and machine costs.	No
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.	No
37-2012	Maids and Housekeeping Cleaners	Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels and hospitals, in a clean and orderly manner. Duties may include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.	No
37-2019	Building Cleaning Workers, All Other	All building cleaning workers not listed separately.	No
37-2021	Pest Control Workers	Apply or release chemical solutions or toxic gases and set traps to kill or remove pests and vermin that infest buildings and surrounding areas.	No
37-3011	Landscaping and Groundskeeping Workers	Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units. Excludes "Farmworkers and Laborers, Crop, Nursery, and Greenhouse" (45-2092).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	Mix or apply pesticides, herbicides, fungicides, or insecticides through sprays, dusts, vapors, soil incorporation, or chemical application on trees, shrubs, lawns, or crops. Usually requires specific training and state or federal certification. Crop dusters are included in "Commercial Pilots" (53-2012).	No
37-3013	Tree Trimmers and Pruners	Using sophisticated climbing and rigging techniques, cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health, and value of tree. Prune or treat trees or shrubs using handsaws, hand pruners, clippers, and power pruners. Works off the ground in the tree canopy and may use truck-mounted lifts. Excludes workers who primarily perform duties of "Landscaping and Groundskeeping Workers" (37-3011) and "Pesticide Handlers, Sprayers, and Applicators, Vegetation" (37-3012).	No
37-3019	Grounds Maintenance Workers, All Other	All grounds maintenance workers not listed separately.	No
39-1013	First-Line Supervisors of Gambling Services Workers	Directly supervise and coordinate activities of workers in assigned gambling areas. May circulate among tables, observe operations, and ensure that stations and games are covered for each shift. May verify and pay off jackpots. May reset slot machines after payoffs and make repairs or adjustments to slot machines or recommend removal of slot machines for repair. May plan and organize activities and services for guests in hotels/casinos.	No
39-1014	First-Line Supervisors of Entertainment and Recreation Workers, Except Gambling Services	Directly supervise and coordinate activities of entertainment and recreation related workers.	No
39-1022	First-Line Supervisors of Personal Service Workers	Supervise and coordinate activities of personal service workers.	No
39-2011	Animal Trainers	Train animals for riding, harness, security, performance, or obedience, or for assisting persons with disabilities. Accustom animals to human voice and contact, and condition animals to respond to commands. Train animals according to prescribed standards for show or competition. May train animals to carry pack loads or work as part of pack team.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
39-2021	Animal Caretakers	Feed, water, groom, bathe, exercise, or otherwise provide care to promote and maintain the well-being of pets and other animals that are not raised for consumption, such as dogs, cats, race horses, ornamental fish or birds, zoo animals, and mice. Work in settings such as kennels, animal shelters, zoos, circuses, and aquariums. May keep records of feedings, treatments, and animals received or discharged. May clean, disinfect, and repair cages, pens, or fish tanks. Excludes "Veterinary Assistants and Laboratory Animal Caretakers" (31-9096) and "Farmworkers, Farm, Ranch, and Aquacultural Animals" (45-2093).	Yes
39-3011	Gambling Dealers	Operate table games. Stand or sit behind table and operate games of chance by dispensing the appropriate number of cards or blocks to players, or operating other gambling equipment. Distribute winnings or collect players' money or chips. May compare the house's hand against players' hands.	No
39-3012	Gambling and Sports Book Writers and Runners	Post information enabling patrons to wager on various races and sporting events. Assist in the operation of games such as keno and bingo. May operate random number-generating equipment and announce the numbers for patrons. Receive, verify, and record patrons' wagers. Scan and process winning tickets presented by patrons and pay out winnings for those wagers.	No
39-3019	Gambling Service Workers, All Other	All gambling service workers not listed separately.	No
39-3021	Motion Picture Projectionists	Set up and operate motion picture projection and related sound reproduction equipment.	Yes
39-3031	Ushers, Lobby Attendants, and Ticket Takers	Assist patrons at entertainment events by performing duties, such as collecting admission tickets and passes from patrons, assisting in finding seats, searching for lost articles, and helping patrons locate such facilities as restrooms and telephones.	Yes
39-3091	Amusement and Recreation Attendants	Perform a variety of attending duties at amusement or recreation facility. May schedule use of recreation facilities, maintain and provide equipment to participants of sporting events or recreational pursuits, or operate amusement concessions and rides.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
39-3092	Costume Attendants	Select, fit, and take care of costumes for cast members, and aid entertainers. May assist with multiple costume changes during performances.	Yes
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	Provide personal items to patrons or customers in locker rooms, dressing rooms, or coatrooms.	No
39-3099	Entertainment Attendants and Related Workers, All Other	All entertainment attendants and related workers not listed separately.	Yes
39-4011	Embalmers	Prepare bodies for interment in conformity with legal requirements.	No
39-4012	Crematory Operators	Operate crematory equipment to reduce human or animal remains to bone fragments in accordance with state and local regulations. Duties may include preparing the body for cremation and performing general maintenance on crematory equipment. May use traditional flame-based cremation, calcination, or alkaline hydrolysis.	No
39-4021	Funeral Attendants	Perform a variety of tasks during funeral, such as placing casket in parlor or chapel prior to service, arranging floral offerings or lights around casket, directing or escorting mourners, closing casket, and issuing and storing funeral equipment.	No
39-4031	Morticians, Undertakers, and Funeral Arrangers	Perform various tasks to arrange and direct individual funeral services, such as coordinating transportation of body to mortuary, interviewing family or other authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners. Excludes "Funeral Home Managers" (11-9171).	No
39-5011	Barbers	Provide barbering services, such as cutting, trimming, shampooing, and styling hair; trimming beards; or giving shaves.	Yes
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Provide beauty services, such as cutting, coloring, and styling hair, and massaging and treating scalp. May shampoo hair, apply makeup, dress wigs, remove hair, and provide nail and skincare services. Excludes "Makeup Artists, Theatrical and Performance" (39-5091), "Manicurists and Pedicurists" (39-5092), and "Skincare Specialists" (39-5094).	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
39-5091	Makeup Artists, Theatrical and Performance	Apply makeup to performers to reflect period, setting, and situation of their role.	Yes
39-5092	Manicurists and Pedicurists	Clean and shape customers' fingernails and toenails. May polish or decorate nails.	Yes
39-5093	Shampooers	Shampoo and rinse customers' hair.	No
39-5094	Skincare Specialists	Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.	No
39-6011	Baggage Porters and Bellhops	Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments.	No
39-6012	Concierges	Assist patrons at hotel, apartment, or office building with personal services. May take messages; arrange or give advice on transportation, business services, or entertainment; or monitor guest requests for housekeeping and maintenance.	No
39-7010	Tour and Travel Guides	This occupation includes the 2018 SOC occupations 39-7011 Tour Guides and Escorts and 39-7012 Travel Guides.	No
39-9011	Childcare Workers	Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play. Excludes "Preschool Teachers, Except Special Education" (25-2011) and "Teaching Assistants, Preschool, Elementary, Middle, and Secondary School, Except Special Education" (25-9042).	No
39-9031	Exercise Trainers and Group Fitness Instructors	Instruct or coach groups or individuals in exercise activities for the primary purpose of personal fitness. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills. Develop and implement individualized approaches to exercise. Excludes "Educational Instruction and Library Occupations" (25-0000), "Coaches and Scouts" (27-2022), and "Athletic Trainers" (29-9091).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
39-9032	Recreation Workers	Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members.	Yes
39-9041	Residential Advisors	Coordinate activities in resident facilities in secondary school and college dormitories, group homes, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May assist residents with problem solving or refer them to counseling resources.	Yes
39-9099	Personal Care and Service Workers, All Other	All personal care and service workers not listed separately.	No
41-1011	First-Line Supervisors of Retail Sales Workers	Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.	No
41-1012	First-Line Supervisors of Non-Retail Sales Workers	Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties such as budgeting, accounting, and personnel work, in addition to supervisory duties.	No
41-2011	Cashiers	Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment. May process credit or debit card transactions and validate checks. Excludes "Gambling Change Persons and Booth Cashiers" (41-2012).	No
41-2012	Gambling Change Persons and Booth Cashiers	Exchange coins, tokens, and chips for patrons' money. May issue payoffs and obtain customer's signature on receipt. May operate a booth in the slot machine area and furnish change persons with money bank at the start of the shift, or count and audit money in drawers. Excludes "Cashiers" (41-2011).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
41-2021	Counter and Rental Clerks	Receive orders, generally in person, for repairs, rentals, and services. May describe available options, compute cost, and accept payment. Excludes "Fast Food and Counter Workers" (35-3023), "Hotel, Motel, and Resort Desk Clerks" (43-4081), "Order Clerks" (43-4151), and "Reservation and Transportation Ticket Agents and Travel Clerks" (43-4181).	No
41-2022	Parts Salespersons	Sell spare and replacement parts and equipment in repair shop or parts store.	No
41-2031	Retail Salespersons	Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers. Excludes "Cashiers" (41-2011).	No
41-3011	Advertising Sales Agents	Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or Internet establishments or public spaces.	No
41-3021	Insurance Sales Agents	Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.	No
41-3031	Securities, Commodities, and Financial Services Sales Agents	Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise customers about stocks, bonds, mutual funds, commodities, and market conditions.	No
41-3041	Travel Agents	Plan and sell transportation and accommodations for customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required. May also describe, plan, and arrange itineraries and sell tour packages. May assist in resolving clients' travel problems.	Yes
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	Sell services to individuals or businesses. May describe options or resolve client problems. Excludes "Advertising Sales Agents" (41-3011), "Insurance Sales Agents" (41-3021), "Securities, Commodities, and Financial Services Sales Agents" (41-3031), "Travel Agents" (41-3041), "Sales Representatives, Wholesale and Manufacturing" (41-4010), and "Telemarketers" (41-9041).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of postsecondary education. Excludes "Sales Engineers" (41-9031).	No
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.	No
41-9011	Demonstrators and Product Promoters	Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise.	No
41-9012	Models	Model garments or other apparel and accessories for prospective buyers at fashion shows, private showings, or retail establishments. May pose for photos to be used in magazines or advertisements. May pose as subject for paintings, sculptures, and other types of artistic expression.	Yes
41-9021	Real Estate Brokers	Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.	No
41-9022	Real Estate Sales Agents	Rent, buy, or sell property for clients. Perform duties such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.	No
41-9031	Sales Engineers	Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. Excludes "Engineers" (17-2011 through 17-2199) whose primary function is not marketing or sales.	No
41-9041	Telemarketers	Solicit donations or orders for goods or services over the telephone.	No
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	Sell goods or services door-to-door or on the street.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
41-9099	Sales and Related Workers, All Other	All sales and related workers not listed separately.	No
43-1011	First-Line Supervisors of Office and Administrative Support Workers	Directly supervise and coordinate the activities of clerical and administrative support workers.	No
43-2011	Switchboard Operators, Including Answering Service	Operate telephone business systems equipment or switchboards to relay incoming, outgoing, and interoffice calls. May supply information to callers and record messages.	No
43-2021	Telephone Operators	Provide information by accessing alphabetical, geographical, or other directories. Assist customers with special billing requests, such as charges to a third party and credits or refunds for incorrectly dialed numbers or bad connections. May handle emergency calls and assist children or people with physical disabilities to make telephone calls.	No
43-2099	Communications Equipment Operators, All Other	All communications equipment operators not listed separately.	No
43-3011	Bill and Account Collectors	Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account, preparing statements to credit department if customer fails to respond, initiating repossession proceedings or service disconnection, and keeping records of collection and status of accounts.	No
43-3021	Billing and Posting Clerks	Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods. Excludes "Medical Records Specialists" (29-2072).	No
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers. Excludes "Payroll and Timekeeping Clerks" (43-3051).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-3041	Gambling Cage Workers	In a gambling establishment, conduct financial transactions for patrons. Accept patron's credit application and verify credit references to provide check-cashing authorization or to establish house credit accounts. May reconcile daily summaries of transactions to balance books. May sell gambling chips, tokens, or tickets to patrons, or to other workers for resale to patrons. May convert gambling chips, tokens, or tickets to currency upon patron's request. May use a cash register or computer to record transaction.	No
43-3051	Payroll and Timekeeping Clerks	Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks. Excludes "Bookkeeping, Accounting, and Auditing Clerks" (43-3031).	No
43-3061	Procurement Clerks	Compile information and records to draw up purchase orders for procurement of materials and services. Excludes "Wholesale and Retail Buyers, Except Farm Products" (13-1022).	No
43-3071	Tellers	Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.	No
43-3099	Financial Clerks, All Other	All financial clerks not listed separately.	No
43-4011	Brokerage Clerks	Perform duties related to the purchase, sale, or holding of securities. Duties include writing orders for stock purchases or sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings.	No
43-4021	Correspondence Clerks	Compose letters or electronic correspondence in reply to requests for merchandise, damage claims, credit and other information, delinquent accounts, incorrect billings, or unsatisfactory services. Duties may include gathering data to formulate reply and preparing correspondence.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-4031	Court, Municipal, and License Clerks	Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus. May prepare docket of cases to be called; secure information for judges and court; prepare draft agendas or bylaws for town or city council; answer official correspondence; keep fiscal records and accounts; issue licenses or permits; and record data, administer tests, or collect fees. Clerks of Court are classified in "Managers, All Other" (11-9199).	No
43-4041	Credit Authorizers, Checkers, and Clerks	Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data, determine credit worthiness, process applications, and notify customers of acceptance or rejection of credit.	No
43-4051	Customer Service Representatives	Interact with customers to provide basic or scripted information in response to routine inquiries about products and services. May handle and resolve general complaints. Excludes individuals whose duties are primarily installation, sales, repair, and technical support.	No
43-4061	Eligibility Interviewers, Government Programs	Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.	No
43-4071	File Clerks	File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.	No
43-4081	Hotel, Motel, and Resort Desk Clerks	Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys or cards, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-4111	Interviewers, Except Eligibility and Loan	Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. May sort, classify, and file forms.	No
43-4121	Library Assistants, Clerical	Compile records, and sort, shelve, issue, and receive library materials such as books, electronic media, pictures, cards, slides and microfilm. Locate library materials for loan and replace material in shelving area, stacks, or files according to identification number and title. Register patrons to permit them to borrow books, periodicals, and other library materials. Excludes "Library Technicians" (25-4031).	No
43-4131	Loan Interviewers and Clerks	Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan.	No
43-4141	New Accounts Clerks	Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.	No
43-4151	Order Clerks	Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Generally receives orders via mail, phone, fax, or other electronic means. Duties include informing customers of receipt, prices, shipping dates, and delays; preparing contracts; and handling complaints. Excludes "Dispatchers, Except Police, Fire, and Ambulance" (43-5032) who both dispatch and take orders for services.	No
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination. May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-4171	Receptionists and Information Clerks	Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization. Excludes "Switchboard Operators, Including Answering Service" (43-2011).	No
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	Make and confirm reservations for transportation or lodging, or sell transportation tickets. May check baggage and direct passengers to designated concourse, pier, or track; deliver tickets and contact individuals and groups to inform them of package tours; or provide tourists with travel or transportation information. Excludes "Cashiers" (41-2011), "Travel Agents" (41-3041), and "Hotel, Motel, and Resort Desk Clerks" (43-4081) who sell tickets for local transportation.	No
43-4199	Information and Record Clerks, All Other	All information and record clerks not listed separately.	No
43-5011	Cargo and Freight Agents	Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.	No
43-5021	Couriers and Messengers	Pick up and deliver messages, documents, packages, and other items between offices or departments within an establishment or directly to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance. Excludes "Light Truck Drivers" (53-3033).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-5031	Public Safety Telecommunicators	Operate telephone, radio, or other communication systems to receive and communicate requests for emergency assistance at 9-1-1 public safety answering points and emergency operations centers. Take information from the public and other sources regarding crimes, threats, disturbances, acts of terrorism, fires, medical emergencies, and other public safety matters. May coordinate and provide information to law enforcement and emergency response personnel. May access sensitive databases and other information sources as needed. May provide additional instructions to callers based on knowledge of and certification in law enforcement, fire, or emergency medical procedures.	No
43-5032	Dispatchers, Except Police, Fire, and Ambulance	Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress.	No
43-5041	Meter Readers, Utilities	Read meter and record consumption of electricity, gas, water, or steam.	No
43-5051	Postal Service Clerks	Perform any combination of tasks in a United States Postal Service (USPS) post office, such as receive letters and parcels; sell postage and revenue stamps, postal cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags; and examine mail for correct postage. Includes postal service clerks employed by USPS contractors.	No
43-5052	Postal Service Mail Carriers	Sort and deliver mail for the United States Postal Service (USPS). Deliver mail on established route by vehicle or on foot. Includes postal service mail carriers employed by USPS contractors.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	Prepare incoming and outgoing mail for distribution for the United States Postal Service (USPS). Examine, sort, and route mail. Load, operate, and occasionally adjust and repair mail processing, sorting, and canceling machinery. Keep records of shipments, pouches, and sacks, and perform other duties related to mail handling within the postal service. Includes postal service mail sorters and processors employed by USPS contractors. Excludes "Postal Service Clerks" (43-5051) and "Postal Service Mail Carriers" (43-5052).	No
43-5061	Production, Planning, and Expediting Clerks	Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. Excludes "Project Management Specialists" (13-1082) and "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).	No
43-5071	Shipping, Receiving, and Inventory Clerks	Verify and maintain records on incoming and outgoing shipments involving inventory. Duties include verifying and recording incoming merchandise or material and arranging for the transportation of products. May prepare items for shipment. Excludes "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111), "Mail Clerks and Mail Machine Operators, except Postal Service" (43-9051), and "Stockers and Order Fillers" (53-7065).	No
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature. Includes workers who collect and keep record of samples of products or materials. Excludes "Inspectors, Testers, Sorters, Samplers, and Weighers" (51-9061).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
43-6011	Executive Secretaries and Executive Administrative Assistants	Provide high-level administrative support by conducting research, preparing statistical reports, and handling information requests, as well as performing routine administrative functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff. Excludes "Secretaries" (43-6012 through 43-6014).	No
43-6012	Legal Secretaries and Administrative Assistants	Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.	No
43-6013	Medical Secretaries and Administrative Assistants	Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.	No
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	Perform routine administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. Excludes legal, medical, and executive secretaries (43-6011 through 43-6013).	No
43-9021	Data Entry Keyers	Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. Excludes "Word Processors and Typists" (43-9022).	No
43-9022	Word Processors and Typists	Use word processor, computer, or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned. Excludes "Court Reporters and Simultaneous Captioners" (27-3092), "Medical Transcriptionists" (31-9094), "Secretaries and Administrative Assistants" (43-6010), and "Data Entry Keyers" (43-9021).	No
43-9031	Desktop Publishers	Format typescript and graphic elements using computer software to produce publication-ready material.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
43-9041	Insurance Claims and Policy Processing Clerks	Process new insurance policies, modifications to existing policies, and claims forms. Obtain information from policyholders to verify the accuracy and completeness of information on claims forms, applications and related documents, and company records. Update existing policies and company records to reflect changes requested by policyholders and insurance company representatives. Excludes "Claims Adjusters, Examiners, and Investigators" (13-1031).	No
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	Prepare incoming and outgoing mail for distribution. Time-stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages. Duties may also include keeping necessary records and completed forms.	No
43-9061	Office Clerks, General	Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring knowledge of office systems and procedures. Clerical duties may be assigned in accordance with the office procedures of individual establishments and may include a combination of answering telephones, bookkeeping, typing or word processing, office machine operation, and filing.	No
43-9071	Office Machine Operators, Except Computer	Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines. Excludes "Billing and Posting Clerks" (43-3021) and "Mail Clerks and Mail Machine Operators, Except Postal Service" (43-9051).	No
43-9081	Proofreaders and Copy Markers	Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. Excludes workers whose primary duty is editing copy. Includes proofreaders of braille.	Yes
43-9111	Statistical Assistants	Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.	No
43-9199	Office and Administrative Support Workers, All Other	All office and administrative support workers not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. Excludes "First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers" (37-1012).	No
45-2011	Agricultural Inspectors	Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.	No
45-2021	Animal Breeders	Select and breed animals according to their genealogy, characteristics, and offspring. May require knowledge of artificial insemination techniques and equipment use. May involve keeping records on heats, birth intervals, or pedigree. Excludes "Animal Scientists" (19-1011) whose primary function is research and "Animal Caretakers" (39-2021) who may occasionally breed animals as part of their other caretaking duties.	No
45-2041	Graders and Sorters, Agricultural Products	Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. Excludes "Agricultural Inspectors" (45-2011).	No
45-2091	Agricultural Equipment Operators	Drive and control equipment to support agricultural activities such as tilling soil; planting, cultivating, and harvesting crops; feeding and herding livestock; or removing animal waste. May perform tasks such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks such as husking, shelling, threshing, and ginning.	No
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; or cleaning, grading, sorting, packing, and loading harvested products. May construct trellises, repair fences and farm buildings, or participate in irrigation activities. Excludes "Pesticide Handlers, Sprayers, and Applicators, Vegetation" (37-3012), "Graders and Sorters, Agricultural Products" (45-2041), and "Forest,	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		Conservation, and Logging Workers" (45-4011 through 45-4029).	
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	Attend to live farm, ranch, open range or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, rabbits, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey. Duties may include feeding, watering, herding, grazing, milking, castrating, branding, de-beaking, weighing, catching, and loading animals. May maintain records on animals; examine animals to detect diseases and injuries; assist in birth deliveries; and administer medications, vaccinations, or insecticides as appropriate. May clean and maintain animal housing areas. Includes workers who shear wool from sheep and collect eggs in hatcheries.	No
45-2099	Agricultural Workers, All Other	All agricultural workers not listed separately.	No
45-3031	Fishing and Hunting Workers	Hunt, trap, catch, or gather wild animals or aquatic animals and plants. May use nets, traps, or other equipment. May haul catch onto ship or other vessel. Aquacultural laborers who work on fish farms are included in "Farmworkers, Farm, Ranch, and Aquacultural Animals" (45-2093).	No
45-4011	Forest and Conservation Workers	Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil. Includes forester aides, seedling pullers, tree planters, and gatherers of nontimber forestry products such as pine straw.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
45-4021	Fallers	Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage.	No
45-4022	Logging Equipment Operators	Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush. Includes operating stand-alone logging machines, such as log chippers. Logging truck drivers are included in "Heavy and Tractor-Trailer Truck Drivers" (53-3032).	No
45-4023	Log Graders and Scalers	Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume. Excludes "Buyers and Purchasing Agents, Farm Products" (13-1021).	No
45-4029	Logging Workers, All Other	All logging workers not listed separately.	No
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	Directly supervise and coordinate activities of construction or extraction workers.	No
47-2011	Boilermakers	Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Work involves use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Inspect and repair boiler fittings, such as safety valves, regulators, automatic-control mechanisms, water columns, and auxiliary machines.	No
47-2021	Brickmasons and Blockmasons	Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances, to construct or repair walls, partitions, arches, sewers, and other structures. Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers" (37-3011). Excludes "Stonemasons" (47-2022).	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
47-2022	Stonemasons	Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.	Yes
47-2031	Carpenters	Construct, erect, install, or repair structures and fixtures made of wood and comparable materials, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall, and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways.	No
47-2041	Carpet Installers	Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials. Excludes "Floor Layers, Except Carpet, Wood, and Hard Tiles" (47-2042).	No
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.	Yes
47-2043	Floor Sanders and Finishers	Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.	No
47-2044	Tile and Stone Setters	Apply hard tile, stone, and comparable materials to walls, floors, ceilings, countertops, and roof decks.	Yes
47-2051	Cement Masons and Concrete Finishers	Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints. Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers" (37-3011).	Yes
47-2053	Terrazzo Workers and Finishers	Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
47-2061	Construction Laborers	Perform tasks involving physical labor at construction sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, and clean up rubble, debris, and other waste materials. May assist other craft workers. Construction laborers who primarily assist a particular craft worker are classified under "Helpers, Construction Trades" (47-3010). Excludes "Hazardous Materials Removal Workers" (47-4041).	No
47-2071	Paving, Surfacing, and Tamping Equipment Operators	Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways or for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.	No
47-2072	Pile Driver Operators	Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures such as buildings, bridges, and piers.	No
47-2073	Operating Engineers and Other Construction Equipment Operators	Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties. Excludes "Extraction Workers" (47-5000) and "Crane and Tower Operators" (53-7021).	No
47-2081	Drywall and Ceiling Tile Installers	Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound. Materials may be of decorative quality. Includes lathers who fasten wooden, metal, or rockboard lath to walls, ceilings, or partitions of buildings to provide support base for plaster, fireproofing, or acoustical material. Excludes "Carpenters" (47-	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
		2031), "Carpet Installers" (47-2041), and "Tile and Stone Setters" (47-2044).	
47-2082	Tapers	Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.	No
47-2111	Electricians	Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. Excludes "Security and Fire Alarm Systems Installers" (49-2098).	No
47-2121	Glaziers	Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.	Yes
47-2131	Insulation Workers, Floor, Ceiling, and Wall	Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.	No
47-2132	Insulation Workers, Mechanical	Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.	No
47-2141	Painters, Construction and Maintenance	Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. Excludes "Paperhangers" (47-2142).	Yes
47-2142	Paperhangers	Cover interior walls or ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces such as walls and billboards. May remove old materials or prepare surfaces to be papered.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
47-2151	Pipelayers	Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. Excludes "Welders, Cutters, Solderers, and Brazers" (51-4121).	No
47-2152	Plumbers, Pipefitters, and Steamfitters	Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinkler fitters.	No
47-2161	Plasterers and Stucco Masons	Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.	Yes
47-2171	Reinforcing Iron and Rebar Workers	Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Includes rod busters.	No
47-2181	Roofers	Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.	No
47-2211	Sheet Metal Workers	Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks, or forms using hammer; operating soldering and welding equipment to join sheet metal parts; or inspecting, assembling, and smoothing seams and joints of burred surfaces. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes.	No
47-2221	Structural Iron and Steel Workers	Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. Excludes "Reinforcing Iron and Rebar Workers" (47-2171).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
47-2231	Solar Photovoltaic Installers	Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks. Excludes solar PV electricians who are included in "Electricians" (47-2111) and solar thermal installers who are included in "Plumbers, Pipefitters, and Steamfitters" (47-2152).	No
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist brickmasons, blockmasons, and stonemasons or tile and marble setters are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No
47-3012	Helpers--Carpenters	Help carpenters by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist carpenters are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No
47-3013	Helpers--Electricians	Help electricians by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist electricians are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	Help painters, paperhangers, plasterers, or stucco masons by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist painters, paperhangers, plasterers, or stucco masons are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist plumbers, pipefitters, steamfitters, or pipelayers are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No
47-3016	Helpers--Roofers	Help roofers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist roofers are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No
47-3019	Helpers, Construction Trades, All Other	All construction trades helpers not listed separately.	No
47-4011	Construction and Building Inspectors	Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.	No
47-4021	Elevator and Escalator Installers and Repairers	Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.	No
47-4031	Fence Erectors	Erect and repair fences and fence gates, using hand and power tools.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
47-4041	Hazardous Materials Removal Workers	Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.	No
47-4051	Highway Maintenance Workers	Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement and repairing guard rails, highway markers, and snow fences. May also mow or clear brush from along road, or plow snow from roadway. Excludes "Tree Trimmers and Pruners" (37-3013).	No
47-4061	Rail-Track Laying and Maintenance Equipment Operators	Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Includes ballast cleaning machine operators and railroad bed tamping machine operators.	No
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.	No
47-4090	Miscellaneous Construction and Related Workers	This occupation includes the 2018 SOC occupations 47-4091 Segmental Pavers and 47-4099 Construction and Related Workers, All Other.	No
47-5011	Derrick Operators, Oil and Gas	Rig derrick equipment and operate pumps to circulate mud or fluid through drill hole.	No
47-5012	Rotary Drill Operators, Oil and Gas	Set up or operate a variety of drills to remove underground oil and gas, or remove core samples for testing during oil and gas exploration. Excludes "Earth Drillers, Except Oil and Gas" (47-5023).	No
47-5013	Service Unit Operators, Oil and Gas	Operate equipment to increase oil flow from producing wells or to remove stuck pipe, casing, tools, or other obstructions from drilling wells. Includes fishing-tool technicians.	No
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	Operate or tend machinery at surface mining site, equipped with scoops, shovels, or buckets to excavate and load loose materials.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
47-5023	Earth Drillers, Except Oil and Gas	Operate a variety of drills such as rotary, churn, and pneumatic to tap subsurface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction. Includes horizontal and earth boring machine operators.	No
47-5032	Explosives Workers, Ordnance Handling Experts, and Blasters	Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures.	No
47-5041	Continuous Mining Machine Operators	Operate self-propelled mining machines that rip coal, metal and nonmetal ores, rock, stone, or sand from the mine face and load it onto conveyors, shuttle cars, or trucks in a continuous operation.	No
47-5043	Roof Bolters, Mining	Operate machinery to install roof support bolts in underground mine.	No
47-5044	Loading and Moving Machine Operators, Underground Mining	Operate underground loading or moving machine to load or move coal, ore, or rock using shuttle or mine car or conveyors. Equipment may include power shovels, hoisting engines equipped with cable-drawn scraper or scoop, or machines equipped with gathering arms and conveyor.	No
47-5049	Underground Mining Machine Operators, All Other	All underground mining machine operators not listed separately.	No
47-5051	Rock Splitters, Quarry	Separate blocks of rough dimension stone from quarry mass using jackhammers, wedges, or chop saws.	No
47-5071	Roustabouts, Oil and Gas	Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.	No
47-5081	Helpers--Extraction Workers	Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties requiring less skill. Duties include supplying equipment or cleaning work area. Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
47-5099	Extraction Workers, All Other	All extraction workers not listed separately.	No
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	Directly supervise and coordinate the activities of mechanics, installers, and repairers. May also advise customers on recommended services. Excludes team or work leaders.	No
49-2011	Computer, Automated Teller, and Office Machine Repairers	Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines.	No
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	Repair, install, or maintain mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband, ship-to-shore, aircraft-to-ground communications, and radio equipment in service and emergency vehicles. May test and analyze network coverage.	No
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Install, set up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings. Excludes "Telecommunications Line Installers and Repairers" (49-9052).	No
49-2091	Avionics Technicians	Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.	No
49-2092	Electric Motor, Power Tool, and Related Repairers	Repair, maintain, or install electric motors, wiring, or switches.	No
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. Excludes "Avionics Technicians" (49-2091) and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Excludes "Avionics Technicians" (49-2091), "Electrical and Electronics Installers and Repairers, Transportation Equipment" (49-2093), and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).	No
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.	No
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.	No
49-2097	Audiovisual Equipment Installers and Repairers	Install, repair, or adjust audio or television receivers, stereo systems, camcorders, video systems, or other electronic entertainment equipment in homes or other venues. May perform routine maintenance. Excludes "Audio and Video Technicians" (27-4011).	No
49-2098	Security and Fire Alarm Systems Installers	Install, program, maintain, and repair security and fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes. Excludes "Electricians" (47-2111) who do a broad range of electrical wiring.	No
49-3011	Aircraft Mechanics and Service Technicians	Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Excludes "Avionics Technicians" (49-2091).	No
49-3021	Automotive Body and Related Repairers	Repair and refinish automotive vehicle bodies and straighten vehicle frames. Excludes "Automotive Glass Installers and Repairers" (49-3022) and "Coating, Painting, and Spraying Machine Setters, Operators, and Tenders" (51-9124).	No
49-3022	Automotive Glass Installers and Repairers	Replace or repair broken windshields and window glass in motor vehicles.	No
49-3023	Automotive Service Technicians and Mechanics	Diagnose, adjust, repair, or overhaul automotive vehicles. Excludes "Automotive Body and Related Repairers" (49-3021), "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031), and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.	No
49-3041	Farm Equipment Mechanics and Service Technicians	Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).	No
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and mining. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031) and "Rail Car Repairers" (49-3043).	No
49-3043	Rail Car Repairers	Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).	No
49-3051	Motorboat Mechanics and Service Technicians	Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).	No
49-3052	Motorcycle Mechanics	Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.	No
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment, and related equipment.	No
49-3091	Bicycle Repairers	Repair and service bicycles.	No
49-3092	Recreational Vehicle Service Technicians	Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Includes workers who perform customized van conversions. Excludes "Automotive Service Technicians and Mechanics" (49-3023) and "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031) who also work on recreation vehicles.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
49-3093	Tire Repairers and Changers	Repair and replace tires.	No
49-9011	Mechanical Door Repairers	Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.	No
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.	No
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Install or repair heating, central air conditioning, HVAC, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.	No
49-9031	Home Appliance Repairers	Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.	No
49-9041	Industrial Machinery Mechanics	Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. May also install, dismantle, or move machinery and heavy equipment according to plans. Excludes "Mobile Heavy Equipment Mechanics, Except Engines" (49-3042), and "Maintenance Workers, Machinery" (49-9043).	No
49-9043	Maintenance Workers, Machinery	Lubricate machinery, change parts, or perform other routine machinery maintenance. Excludes "Maintenance and Repair Workers, General" (49-9071).	No
49-9044	Millwrights	Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.	No
49-9045	Refractory Materials Repairers, Except Brickmasons	Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits, and ovens, using refractory materials.	No
49-9051	Electrical Power-Line Installers and Repairers	Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers. Excludes "Electrical and Electronics Repairers, Powerhouse, Substation, and Relay" (49-2095).	No
49-9052	Telecommunications Line Installers and Repairers	Install and repair telecommunications cable, including fiber optics.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
49-9061	Camera and Photographic Equipment Repairers	Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.	No
49-9062	Medical Equipment Repairers	Test, adjust, or repair biomedical or electromedical equipment.	No
49-9063	Musical Instrument Repairers and Tuners	Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning. Excludes "Audiovisual Equipment Installers and Repairers" (49-2097) who repair electrical and electronic musical instruments.	No
49-9064	Watch and Clock Repairers	Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Includes watchmakers, watch technicians, and mechanical timepiece repairers. Excludes "Timing Device Assemblers and Adjusters" (51-2061).	No
49-9069	Precision Instrument and Equipment Repairers, All Other	All precision instrument and equipment repairers not listed separately.	No
49-9071	Maintenance and Repair Workers, General	Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of a building in repair. Duties may involve pipe fitting; HVAC maintenance; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. Excludes "Facilities Managers" (11-3013) and "Maintenance Workers, Machinery" (49-9043).	No
49-9081	Wind Turbine Service Technicians	Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.	No
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
49-9092	Commercial Divers	Work below surface of water, using surface-supplied air or scuba equipment to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life. Excludes "Athletes and Sports Competitors" (27-2021), "Police and Sheriff's Patrol Officers" (33-3051), and "Fishing and Hunting Workers" (45-3031).	No
49-9094	Locksmiths and Safe Repairers	Repair and open locks, make keys, change locks and safe combinations, and install and repair safes.	No
49-9095	Manufactured Building and Mobile Home Installers	Move or install mobile homes or prefabricated buildings.	No
49-9096	Riggers	Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.	No
49-9097	Signal and Track Switch Repairers	Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.	No
49-9098	Helpers--Installation, Maintenance, and Repair Workers	Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers.	No
49-9099	Installation, Maintenance, and Repair Workers, All Other	All installation, maintenance, and repair workers not listed separately.	No
51-1011	First-Line Supervisors of Production and Operating Workers	Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Excludes team or work leaders.	No
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselage, bulkheads, stabilizers,	No

Occupation Code	Occupation Title	Occupation Definition	Creative
		landing gear, rigging and control equipment, or heating and ventilating systems.	
51-2021	Coil Winders, Tapers, and Finishers	Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment.	No
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	This occupation includes 2018 SOC occupations 51-2022 Electrical and Electronic Equipment Assemblers and 51-2023 Electromechanical Equipment Assemblers.	No
51-2031	Engine and Other Machine Assemblers	Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.	No
51-2041	Structural Metal Fabricators and Fitters	Fabricate, position, align, and fit parts of structural metal products. Shipfitters are included in "Layout Workers, Metal and Plastic" (51-4192).	No
51-2051	Fiberglass Laminators and Fabricators	Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.	No
51-2061	Timing Device Assemblers and Adjusters	Perform precision assembling or adjusting, within narrow tolerances, of timing devices such as digital clocks or timing devices with electrical or electronic components. Watchmakers are included in "Watch and Clock Repairers" (49-9064).	No
51-2090	Miscellaneous Assemblers and Fabricators	This occupation includes the 2018 SOC occupations 51-2092 Team Assemblers and 51-2099 Assemblers and Fabricators, All Other.	No
51-3011	Bakers	Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. Pastry chefs in restaurants and hotels are included with "Chefs and Head Cooks" (35-1011).	Yes
51-3021	Butchers and Meat Cutters	Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	Use hands or hand tools to perform routine cutting and trimming of meat, poultry, and seafood.	No
51-3023	Slaughterers and Meat Packers	Perform nonroutine or precision functions involving the preparation of large portions of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats. Work typically occurs in slaughtering, meat packing, or wholesale establishments. Excludes "Meat, Poultry, and Fish Cutters and Trimmers" (51-3022) who perform routine meat cutting.	No
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.	No
51-3092	Food Batchmakers	Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Includes candy makers and cheese makers.	No
51-3093	Food Cooking Machine Operators and Tenders	Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products. Excludes "Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders" (51-3091).	No
51-3099	Food Processing Workers, All Other	All food processing workers not listed separately	No
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.	No
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.	No
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate, or to flatten, temper, or reduce gauge of material.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.	No
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.	No
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.	No
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock.	No
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.	No
51-4041	Machinists	Set up and operate a variety of machine tools to produce precision parts and instruments out of metal. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures. Machinists who primarily program or operate computer numerically controlled (CNC) equipment are classified in "Computer Numerically Controlled Tool Operators and Programmers" (51-9160).	No
51-4051	Metal-Refining Furnace Operators and Tenders	Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel. Excludes "Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic" (51-4191).	No
51-4052	Pourers and Casters, Metal	Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.	No
51-4061	Model Makers, Metal and Plastic	Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
		make working models of metal or plastic objects. Includes template makers.	
51-4062	Patternmakers, Metal and Plastic	Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.	Yes
51-4071	Foundry Mold and Coremakers	Make or form wax or sand cores or molds used in the production of metal castings in foundries. Excludes "Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4072) and "Molders, Shapers, and Casters, Except Metal and Plastic" (51-9195).	Yes
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.	No
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend more than one type of cutting or forming machine tool or robot.	No
51-4111	Tool and Die Makers	Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.	Yes
51-4121	Welders, Cutters, Solderers, and Brazers	Use hand-welding, flame-cutting, hand-soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.	Yes
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.	No
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat treat metal or plastic objects.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-4192	Layout Workers, Metal and Plastic	Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters.	No
51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic	Set up, operate, or tend plating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Typically, the product being coated is immersed in molten metal or an electrolytic solution. Excludes "Coating, Painting, and Spraying Machine Setters, Operators, and Tenders" (51-9124).	No
51-4194	Tool Grinders, Filers, and Sharpeners	Perform precision smoothing, sharpening, polishing, or grinding of metal objects.	No
51-4199	Metal Workers and Plastic Workers, All Other	All metal workers and plastic workers not listed separately.	No
51-5111	Prepress Technicians and Workers	Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.	No
51-5112	Printing Press Operators	Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.	No
51-5113	Print Binding and Finishing Workers	Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines.	No
51-6011	Laundry and Dry-Cleaning Workers	Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, linens, rugs, and carpets. Includes spotters and dyers of these articles.	No
51-6021	Pressers, Textile, Garment, and Related Materials	Press or shape articles by hand or machine.	No
51-6031	Sewing Machine Operators	Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
51-6041	Shoe and Leather Workers and Repairers	Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles. May use hand tools.	Yes
51-6042	Shoe Machine Operators and Tenders	Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.	No
51-6051	Sewers, Hand	Sew, join, reinforce, or finish, usually with needle and thread, a variety of manufactured items. Includes weavers and stitchers.	Yes
51-6052	Tailors, Dressmakers, and Custom Sewers	Design, make, alter, repair, or fit garments.	Yes
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers.	No
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that cut textiles.	No
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. Excludes "Sewing Machine Operators" (51-6031).	No
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver, such as wool, hemp, or synthetic fibers. Includes slubber machine and drawing frame operators.	No
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials, such as liquid polymer, rayon, and fiberglass.	No
51-6092	Fabric and Apparel Patternmakers	Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.	Yes
51-6093	Upholsterers	Make, repair, or replace upholstery for household furniture or transportation vehicles.	Yes
51-6099	Textile, Apparel, and Furnishings Workers, All Other	All textile, apparel, and furnishings workers not listed separately.	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
51-7011	Cabinetmakers and Bench Carpenters	Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products. Excludes "Woodworking Machine Setters, Operators, and Tenders" (51-7040).	Yes
51-7021	Furniture Finishers	Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.	Yes
51-7031	Model Makers, Wood	Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.	Yes
51-7032	Patternmakers, Wood	Plan, lay out, and construct wooden unit or sectional patterns used in forming sand molds for castings.	Yes
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	Set up, operate, or tend wood sawing machines. May operate computer numerically controlled (CNC) equipment. Includes lead sawyers. Workers who primarily program or operate CNC equipment are classified in "Computer Numerically Controlled Tool Operators and Programmers" (51-9160).	Yes
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines. May operate computer numerically controlled (CNC) equipment. Workers who primarily program or operate CNC equipment are classified in "Computer Numerically Controlled Tool Operators and Programmers" (51-9160).	No
51-7099	Woodworkers, All Other	All woodworkers not listed separately.	No
51-8011	Nuclear Power Reactor Operators	Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures when needed. May respond to abnormalities, determine cause, and recommend corrective action.	No
51-8012	Power Distributors and Dispatchers	Coordinate, regulate, or distribute electricity or steam.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-8013	Power Plant Operators	Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators. Excludes "Nuclear Power Reactor Operators" (51-8011).	No
51-8021	Stationary Engineers and Boiler Operators	Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment such as steam engines, generators, motors, turbines, and steam boilers.	No
51-8031	Water and Wastewater Treatment Plant and System Operators	Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.	No
51-8091	Chemical Plant and System Operators	Control or operate entire chemical processes or system of machines.	No
51-8092	Gas Plant Operators	Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.	No
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.	No
51-8099	Plant and System Operators, All Other	All plant and system operators not listed separately.	No
51-9011	Chemical Equipment Operators and Tenders	Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. Excludes "Chemical Plant and System Operators" (51-8091).	No
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills. These machines extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Includes dairy processing equipment operators. Excludes "Chemical Equipment Operators and Tenders" (51-9011).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.	No
51-9022	Grinding and Polishing Workers, Hand	Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.	Yes
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients. Excludes "Food Batchmakers" (51-3092).	No
51-9031	Cutters and Trimmers, Hand	Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber.	Yes
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. Excludes "Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4031), "Textile Cutting Machine Setters, Operators, and Tenders" (51-6062), and "Woodworking Machine Setters, Operators, and Tenders" (51-7040).	No
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Set up, operate, or tend machines, such as glass-forming machines, plodder machines, and tuber machines, to shape and form products such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics. Excludes "Shoe Machine Operators and Tenders" (51-6042) and "Paper Goods Machine Setters, Operators, and Tenders" (51-9196).	No
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Includes activities such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap.	No
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-9071	Jewelers and Precious Stone and Metal Workers	Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, and persons who perform precision casting and modeling of molds, casting metal in molds, or setting precious and semiprecious stones for jewelry and related products.	Yes
51-9081	Dental Laboratory Technicians	Construct and repair full or partial dentures or dental appliances. Excludes "Dental Assistants" (31-9091).	No
51-9082	Medical Appliance Technicians	Construct, maintain, or repair medical supportive devices such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.	No
51-9083	Ophthalmic Laboratory Technicians	Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Includes precision lens polishers or grinders, centerer-edgers, and lens mounters. Excludes "Opticians, Dispensing" (29-2081).	No
51-9111	Packaging and Filling Machine Operators and Tenders	Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.	No
51-9123	Painting, Coating, and Decorating Workers	Paint, coat, or decorate articles, such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather. Excludes "Artists and Related Workers" (27-1010), "Designers" (27-1020), "Photographic Process Workers and Processing Machine Operators" (51-9151), and "Etchers and Engravers" (51-9194).	No
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	Set up, operate, or tend spraying or rolling machines to coat or paint any of a wide variety of products, including glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. Includes painters of transportation vehicles such as painters in auto body repair facilities. Excludes "Plating Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4193).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
51-9141	Semiconductor Processing Technicians	Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments; load individual segment into crystal growing chamber and monitor controls; locate crystal axis in ingot using x-ray equipment and saw ingots into wafers; and clean, polish, and load wafers into series of special purpose furnaces, chemical baths, and equipment used to form circuitry and change conductive properties.	No
51-9151	Photographic Process Workers and Processing Machine Operators	Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.	Yes
51-9161	Computer Numerically Controlled Tool Operators	Operate computer-controlled tools, machines, or robots to machine or process parts, tools, or other work pieces made of metal, plastic, wood, stone, or other materials. May also set up and maintain equipment.	No
51-9162	Computer Numerically Controlled Tool Programmers	Develop programs to control machining or processing of materials by automatic machine tools, equipment, or systems. May also set up, operate, or maintain equipment.	No
51-9191	Adhesive Bonding Machine Operators and Tenders	Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product. Processes include joining veneer sheets into plywood; gluing paper; or joining rubber and rubberized fabric parts, plastic, simulated leather, or other materials. Excludes "Shoe Machine Operators and Tenders" (51-6042).	No
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities.	No
51-9193	Cooling and Freezing Equipment Operators and Tenders	Operate or tend equipment such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals.	No
51-9194	Etchers and Engravers	Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk	Yes

Occupation Code	Occupation Title	Occupation Definition	Creative
		screen etchers. Photoengravers are included in "Prepress Technicians and Workers" (51-5111).	
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.	No
51-9196	Paper Goods Machine Setters, Operators, and Tenders	Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products.	No
51-9197	Tire Builders	Operate machines to build tires.	No
51-9198	Helpers--Production Workers	Help production workers by performing duties requiring less skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment. Apprentice workers are classified in the appropriate production occupations (51-0000).	No
51-9199	Production Workers, All Other	All production workers not listed separately. Excludes "Packers and Packers, Hand" (53-7064).	No
53-1041	Aircraft Cargo Handling Supervisors	Supervise and coordinate the activities of ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. May determine the quantity and orientation of cargo and compute aircraft center of gravity. May accompany aircraft as member of flight crew and monitor and handle cargo in flight, and assist and brief passengers on safety and emergency procedures. Includes loadmasters.	No
53-1047	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors	This occupation includes the 2018 SOC occupations 53-1042 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand; 53-1043 First-Line Supervisors of Material-Moving Machine and Vehicle Operators; 53-1044 First-Line Supervisors of Passenger Attendants; and 53-1049 First-Line Supervisors of Transportation Workers, All Other.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-2011	Airline Pilots, Copilots, and Flight Engineers	Pilot and navigate the flight of fixed-wing aircraft, usually on scheduled air carrier routes, for the transport of passengers and cargo. Requires Federal Air Transport certificate and rating for specific aircraft type used. Includes regional, national, and international airline pilots and flight instructors of airline pilots. Excludes "Electro-Mechanical and Mechatronics Technologists and Technicians" (17-3024).	No
53-2012	Commercial Pilots	Pilot and navigate the flight of fixed-wing aircraft on nonscheduled air carrier routes, or helicopters. Requires Commercial Pilot certificate. Includes charter pilots with similar certification, and air ambulance and air tour pilots. Excludes regional, national, and international airline pilots. Excludes "Electro-Mechanical and Mechatronics Technologists and Technicians" (17-3024).	No
53-2021	Air Traffic Controllers	Control air traffic on and within vicinity of airport, and movement of air traffic between altitude sectors and control centers, according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.	No
53-2022	Airfield Operations Specialists	Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel, dispatching, using airfield landing and navigational aids, implementing airfield safety procedures, monitoring and maintaining flight records, and applying knowledge of weather information.	No
53-2031	Flight Attendants	Monitor safety of the aircraft cabin. Provide services to airline passengers, explain safety information, serve food and beverages, and respond to emergency incidents.	No
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-3031	Driver/Sales Workers	Drive truck or other vehicle over established routes or within an established territory and sell or deliver goods, such as food products, including restaurant take-out items, or pick up or deliver items such as commercial laundry. May also take orders, collect payment, or stock merchandise at point of delivery. Excludes "Coin, Vending, and Amusement Machine Servicers and Repairers" (49-9091) and "Light Truck Drivers" (53-3033).	No
53-3032	Heavy and Tractor-Trailer Truck Drivers	Drive a tractor-trailer combination or a truck with a capacity of at least 26,001 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license. Includes tow truck drivers. Excludes "Refuse and Recyclable Material Collectors" (53-7081).	No
53-3033	Light Truck Drivers	Drive a light vehicle, such as a truck or van, with a capacity of less than 26,001 pounds Gross Vehicle Weight (GVW), primarily to pick up merchandise or packages from a distribution center and deliver. May load and unload vehicle. Excludes "Couriers and Messengers" (43-5021) and "Driver/Sales Workers" (53-3031).	No
53-3051	Bus Drivers, School	Drive a school bus to transport students. Ensure adherence to safety rules. May assist students in boarding or exiting.	No
53-3052	Bus Drivers, Transit and Intercity	Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.	No
53-3053	Shuttle Drivers and Chauffeurs	Drive a motor vehicle to transport passengers on a planned or scheduled basis. May collect a fare. Includes nonemergency medical transporters and hearse drivers. Excludes "Ambulance Drivers and Attendants, Except Emergency Medical Technicians" (53-3011) and "Taxi Drivers" (53-3054).	No
53-3054	Taxi Drivers	Drive a motor vehicle to transport passengers on an unplanned basis and charge a fare, usually based on a meter. Excludes "Shuttle Drivers and Chauffeurs" (53-3053).	No
53-3099	Motor Vehicle Operators, All Other	All motor vehicle operators not listed separately.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-4011	Locomotive Engineers	Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations. Excludes "Engineers" (17-2011 through 17-2199).	No
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	Drive switching or other locomotive or dinkey engines within railroad yard, industrial plant, quarry, construction project, or similar location.	No
53-4022	Railroad Brake, Signal, and Switch Operators and Locomotive Firers	Operate or monitor railroad track switches or locomotive instruments. May couple or uncouple rolling stock to make up or break up trains. Watch for and relay traffic signals. May inspect couplings, air hoses, journal boxes, and hand brakes. May watch for dragging equipment or obstacles on rights-of-way.	No
53-4031	Railroad Conductors and Yardmasters	Coordinate activities of switch-engine crew within railroad yard, industrial plant, or similar location. Conductors coordinate activities of train crew on passenger or freight trains. Yardmasters review train schedules and switching orders and coordinate activities of workers engaged in railroad traffic operations, such as the makeup or breakup of trains and yard switching.	No
53-4041	Subway and Streetcar Operators	Operate subway or elevated suburban trains with no separate locomotive, or electric-powered streetcar, to transport passengers. May handle fares.	No
53-4099	Rail Transportation Workers, All Other	All rail transportation workers not listed separately.	No
53-5011	Sailors and Marine Oilers	Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store cargo-handling gear, stationary rigging, and running gear. Perform a variety of maintenance tasks to preserve the painted surface of the ship and to maintain line and ship equipment. Must hold government-issued certification and tankerman certification when working aboard liquid-carrying vessels. Includes able seamen and ordinary seamen.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-5021	Captains, Mates, and Pilots of Water Vessels	Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard. Excludes "Motorboat Operators" (53-5022).	No
53-5022	Motorboat Operators	Operate small motor-driven boats. May assist in navigational activities.	No
53-5031	Ship Engineers	Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship. Excludes "Engineers" (17-2000).	No
53-6011	Bridge and Lock Tenders	Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Includes drawbridge operators, lock operators, and slip bridge operators.	No
53-6021	Parking Attendants	Park vehicles or issue tickets for customers in a parking lot or garage. May park or tend vehicles in environments such as a car dealership or rental car facility. May collect fee.	No
53-6031	Automotive and Watercraft Service Attendants	Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies. May lubricate vehicle, change motor oil, refill antifreeze, or replace lights or other accessories, such as windshield wiper blades or fan belts. May repair or replace tires. Excludes "Cashiers" (41-2011).	No
53-6032	Aircraft Service Attendants	Service aircraft with fuel. May de-ice aircraft, refill water and cooling agents, empty sewage tanks, service air and oxygen systems, or clean and polish exterior.	No
53-6041	Traffic Technicians	Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-6051	Transportation Inspectors	Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors, rail inspectors, and other inspectors of transportation vehicles not elsewhere classified. Excludes "Transportation Security Screeners" (33-9093).	No
53-6061	Passenger Attendants	Provide services to ensure the safety of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties such as explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel. Excludes "Baggage Porters and Bellhops" (39-6011) and "Flight Attendants" (53-2031).	No
53-6099	Transportation Workers, All Other	All transportation workers not listed separately.	No
53-7011	Conveyor Operators and Tenders	Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.	No
53-7021	Crane and Tower Operators	Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions.	No
53-7031	Dredge Operators	Operate dredge to remove sand, gravel, or other materials in order to excavate and maintain navigable channels in waterways.	No
53-7041	Hoist and Winch Operators	Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment. Excludes "Crane and Tower Operators" (53-7021).	No
53-7051	Industrial Truck and Tractor Operators	Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Excludes "Logging Equipment Operators" (45-4022).	No
53-7061	Cleaners of Vehicles and Equipment	Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses. Excludes "Janitors and Cleaners, Except Maids and Housekeeping Cleaners" (37-2011).	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	Manually move freight, stock, luggage, or other materials, or perform other general labor. Includes all manual laborers not elsewhere classified. Excludes "Construction Laborers" (47-2061) and "Helpers, Construction Trades" (47-3011 through 47-3019). Excludes "Material Moving Workers" (53-7011 through 53-7199) who use power equipment.	No
53-7063	Machine Feeders and Offbearers	Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.	No
53-7064	Packers and Packagers, Hand	Pack or package by hand a wide variety of products and materials.	No
53-7065	Stockers and Order Fillers	Receive, store, and issue merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, tables, or customers' orders. May operate power equipment to fill orders. May mark prices on merchandise and set up sales displays. Excludes "Shipping, Receiving, and Inventory Clerks" (43-5071), "Laborers and Freight, Stock, and Material Movers, Hand" (53-7062), and "Packers and Packagers, Hand" (53-7064).	No
53-7071	Gas Compressor and Gas Pumping Station Operators	Operate steam-, gas-, electric motor-, or internal combustion-engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.	No
53-7072	Pump Operators, Except Wellhead Pumpers	Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.	No
53-7073	Wellhead Pumpers	Operate power pumps and auxiliary equipment to produce flow of oil or gas from wells in oil field.	No
53-7081	Refuse and Recyclable Material Collectors	Collect and dump refuse or recyclable materials from containers into truck. May drive truck.	No
53-7121	Tank Car, Truck, and Ship Loaders	Load and unload chemicals and bulk solids, such as coal, sand, and grain, into or from tank cars, trucks, or ships, using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks.	No

Occupation Code	Occupation Title	Occupation Definition	Creative
53-7199	Material Moving Workers, All Other	All material moving workers not listed separately.	No

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