

# **Transitioning O\*NET to the Standard Occupational Classification**

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## **Executive Summary**

This document describes the important O\*NET to Standard Occupational Classification (SOC) transition initiative, including its overarching principles, action steps taken, and examples of the O\*NET-SOC system. In order to accomplish this transition, O\*NET has been implemented as a SOC-based system. Results of these efforts are highlighted below.

- 1) The new O\*NET-SOC system includes 1094 occupational titles, of which 974 will include data. See Figure 1 on Page 11 for a visual overview of the transition to the new system. The system used the 749 specific, detailed occupations of the revised SOC as its foundation. O\*NET identified 120 of these occupations to include an additional level of detailed occupations. In other words, multiple O\*NET occupations (a total of 343) were linked to these 120 SOC occupations. The total number of titles included within the database, therefore, is the 749 SOC occupational titles plus the 343 detailed O\*NET occupational titles, along with two exceptional cases (total = 1094). Currently, for those 120 occupations with added detailed O\*NET occupations, data will be presented and collected at the detailed level and not at the SOC level. The number of occupations at the “data level” therefore, is the 1094 occupational titles, less the 120 identified occupations (total = 974).
- 2) New products are being developed using the new O\*NET-SOC system and coding structure. Examples are the O\*NET 3.0 database and O\*NET OnLine, a web-based application that will allow users to access valuable occupational information in the database.
- 3) A new O\*NET-SOC Coding System has been implemented throughout new and existing O\*NET products. There are four different coding system situations that describe how linkages were made between detailed SOC occupations and O\*NET occupations (OUs). They are: (a) one SOC to one OU, (b) one SOC to many OUs, (c) many SOC to one OU, and (d) detailed SOC does not match to an OU. Examples of Coding System Situations begin on Page 7.
- 4) A comprehensive crosswalk includes the links between the revised SOC system, the O\*NET 98 OU system, and the new O\*NET-SOC occupational codes and titles. This crosswalk is provided in Attachment 1 of this document.
- 5) An Occupational Code Request (OCR) process is available to accommodate individual requests to add new and emerging occupations to the new O\*NET system. Page 9 provides a description of the OCR process.

## **Overview**

The United States Office of Management and Budget has recently instructed government agencies to implement the newly developed Standard Occupational Classification (SOC) system. It is, therefore, the goal of the National O\*NET Consortium to adhere to the revised SOC system (U.S. Department of Labor, Bureau of Labor Statistics, 1999). To accomplish this, a SOC-based O\*NET system (O\*NET-SOC system) has been implemented. This paper describes this important transition initiative, presents background, and discusses current efforts.

## **Purpose**

All government agencies are moving towards the SOC as the one standard system; therefore, O\*NET must adhere to this system. O\*NET, as one of the first systems to align with the SOC, will serve as a model for other programs that will be implementing a similar transition. A successful O\*NET-SOC conversion will allow O\*NET users [e.g., America's Job Bank (AJB), America's Labor Market Information System (ALMIS), America's Learning Exchange (ALX), etc.] to transition smoothly to other SOC-based tools and systems. In addition, this transition will allow O\*NET to take advantage of other data sources.

The purpose of this document is to inform O\*NET customers of development efforts by providing specific examples of the new O\*NET-SOC system and describing current related efforts, which include the development of a new O\*NET-SOC coding system, an O\*NET-SOC database (O\*NET 3.0 database), a new web-based viewer application (O\*NET OnLine), and awareness products. Additionally, a description and summary of feedback from potential users of O\*NET-SOC alignment products is presented below.

## **Feedback**

Users provided important feedback that will help insure that the new O\*NET-SOC system can be incorporated into other systems (e.g., ALMIS). It is crucial that different organizations work closely together while developing projects, products, or new information. Therefore, this paper was presented to the taxonomy work committee of ALX and ACI-NET, members of the ALMIS Database Consortium, representatives of the Bureau of Labor Statistics, and others. The purpose was to update these groups on O\*NET's effort to transition to the SOC system and to gather input on current transition efforts, specifically the proposed O\*NET-SOC coding system. Some overall comments and general feedback regarding the coding system were received. In addition, various individuals spent time reviewing the transition paper and examining the actual O\*NET to SOC linkages. Subsequently, more specific feedback was received. As a result, the current paper and coding system samples were updated to reflect thoughtful insights and informative suggestions.

## Background

The Occupational Information Network (O\*NET) is a comprehensive database system for collecting, organizing, describing, and disseminating information on occupational characteristics and worker attributes. O\*NET will be at the center of an extensive network of occupational information used by a wide range of audiences, from software developers, to public agencies and schools, to employers, to One Stop Career Centers. The O\*NET Data Collection Program will soon become a continuing activity to develop and maintain a current database on the detailed characteristics of workers and occupations. The new O\*NET 3.0 database will be the most comprehensive standard source of occupational information in the United States.

### *Dictionary of Occupational Titles to O\*NET 98*

O\*NET has replaced the Department of Labor's obsolete *Dictionary of Occupational Titles* (DOT) and provides additional information not available in the DOT. O\*NET uses a data structure, the Content Model, to organize occupational information and provides a "common language" of standardized and defined descriptors and measures about occupations for use by all audiences. O\*NET moved from the DOT's over 12,000 occupations to its current system, a user-friendly 1,122 Occupational Units (OUs) based on the Bureau of Labor Statistics' Occupational Employment Statistics codes<sup>1</sup>. While transitioning from DOT to O\*NET, users can learn more about the relationship between the DOT's occupations and O\*NET's OUs in the crosswalk function of the O\*NET 98 Viewer. Here, Viewer users can see which OUs are linked to DOTs.

### *O\*NET to the SOC System*

The National O\*NET Consortium has made the O\*NET system closely compatible with the SOC system. To be compatible, O\*NET has reduced its number of occupations and moved from its current O\*NET 98 OU system to an SOC-based O\*NET (O\*NET-SOC) system. This conversion required a transition from the existing system to the new O\*NET-SOC system by updating current O\*NET products as well as developing new ones. Initial products in development are listed below.

- O\*NET 3.0 database
- Awareness products
- O\*NET OnLine

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<sup>1</sup> It is important to note that O\*NET 98 and OES are separate systems. O\*NET 98 incorporated OES codes as a basis for its system. In many cases, O\*NET 98 occupations contain more detail than the OES. Therefore, in such O\*NET 98 cases, an alpha character was added to the base OES code to denote this finer level of detail. In O\*NET 3.0, a period and two-digit extension is added to the SOC code, as described on pages 5-9.

## *The O\*NET-SOC System*

To accomplish the transition and adhere to an SOC-based O\*NET system, a new O\*NET-SOC coding system has been implemented throughout new and existing O\*NET products. This new coding system attached a two-digit extension (e.g., .00, .01- .50, .51-.99) to the newly revised six-digit SOC codes. In addition, the soon-to-be-released O\*NET 3.0 database will provide information on the status of each occupation's data (e.g., data currently available; data currently available and linked to multiple SOC codes; no data currently available, but collecting in the future). The codes will allow the user to operate in an SOC mode, but still be able to attain the level of detail and access important information provided by the O\*NET 3.0 database.

A goal of the O\*NET-SOC system is a flexible coding system that readily allows the inclusion of new information (i.e., new occupations). The coding system has been designed to handle new occupations that may be added to the system. A request made to add and assign a temporary code to a new occupation is called an Occupational Code Request (OCR). The coding system is designed to handle the addition of such occupations.

The following sections describe some of the recent efforts of the National Center for O\*NET Development, including how the O\*NET-SOC coding system works for each linkage type and the OCRs, and provide examples of each situation. A detailed crosswalk is available that contains the mapping of SOC codes and titles to OU codes and titles and provides the new O\*NET-SOC codes and titles for each.

### **Current Efforts**

In addition to the new O\*NET-SOC coding system, the following efforts have been undertaken to support the O\*NET-SOC Conversion Project:

- Where possible, O\*NET titles and definitions were converted entirely to SOC titles and definitions.
- To further facilitate the transition to a SOC-based system, current and future data collection efforts will employ SOC titles and definitions where possible.
- In order to make the SOC conversion viable for O\*NET's customer base, a new O\*NET 3.0 database containing a SOC-based coding structure was created. The O\*NET 3.0 database will serve as the foundation for current and future efforts, such as O\*NET OnLine.

### **The O\*NET-SOC Coding System**

This section presents the overarching principles of the coding system, as well as a description of the coding system within four different linkage situations listed below:

- One SOC to one OU

- One SOC to many OUs
- Many SOC to one OU (i.e., the same OU data will be displayed for multiple SOC)
- Detailed SOC does not link to an OU

### *Overarching Principles*

#### **1. The extension “.00” denotes a specific SOC occupation**

A .00 has been added to the six-digit SOC code for a given occupation to allow users to know which O\*NET-SOC occupations are the same as SOC occupations. In most cases, data is available for these occupations.

#### **2. The extensions “.01, .02,... .50” denote occupations derived from O\*NET**

These extensions are used (a) when the system must retain the O\*NET title and definition and (b) when there is a greater level of detail in O\*NET than in the SOC. Sometimes the extension .01 is used when only one O\*NET OU is linked to an SOC, but is more detailed than the SOC. In most cases, however, these extensions are used when there is more than one OU linked to a single SOC. Currently, data are available for occupations having these extensions.

#### **3. The entire SOC structure has been incorporated into the O\*NET 3.0 database**

The SOC structure, including occupational families, will be included in the soon-to-be-released O\*NET 3.0 database. This will facilitate the use of the entire SOC system.

#### **4. “All Other” (residual) SOC categories will not be displayed in O\*NET OnLine**

Since the goal of the O\*NET-SOC system is to adhere to the SOC and collect data on SOC occupations in the future, O\*NET occupations linked to residual SOC categories will not be displayed in O\*NET OnLine. Data will not be collected on such occupations. However, the residual occupations (codes and titles) are retained in the O\*NET 3.0 database.

#### **5. Special cases**

Two O\*NET occupations initially linked to “All Other” SOC categories were selected to be retained in O\*NET-SOC: Human Resource (HR) Managers and Biologists. These occupations were assigned the appropriate broad SOC code and are now O\*NET-SOC occupations. The linkages for these two exceptions are as follows:

SOC Occupations	O*NET 98 Occupational Units	O*NET 3.0 Occupations
11-3040 HR Managers 19-1020 Biological Scientists	13005A HR Managers 24308B Biologists	11-3040.00 HR Managers 19-1020.01 Biologists

## *Description of Coding System Situations*

### **1. One SOC to One OU (482 cases)**

In a one-to-one relationship, there is simply one OU linked to the SOC occupation. Below is an example.

SOC Occupation	O*NET 98 Occupational Unit	O*NET 3.0 Occupation
13-2053 Insurance Underwriters	22102 Underwriters	13-2053.00 Insurance Underwriters

In this example, the OU title (and definition) was determined to be similar enough to the SOC title (and definition) that the SOC could replace the OU. Therefore, the two digit extension .00 was added to the SOC code. However, if titles and/or definitions were determined not to be “replaceable,” then the OU title and definition were kept and a .01 extension was assigned to the SOC code.

### **2. One SOC to Many OUs (120 occupations with added detail, leading to 343 cases)<sup>2</sup>**

In this situation, O\*NET occupations are at a finer level of detail than the SOC occupation. Therefore, the extensions, .01, .02, etc., are used to denote this greater level of detail in O\*NET. Two types of one-to-many relationships are presented:

#### **Example A.**

SOC Occupation	O*NET 98 Occupational Units	O*NET 3.0 Occupations
19-1031 Conservation Scientists	24302B Soil Conservationists 24302D Range Managers 24302E Park Naturalists	19-1031.00 Conservation Scientists 19-1031.01 Soil Conservationists 19-1031.02 Range Managers 19-1031.03 Park Naturalists

In this example, the extensions .01, .02, and .03 have been assigned to the more detailed OUs linked to this SOC occupation. In addition, the extension .00 has been assigned to the SOC occupation, Conservation Scientists, to show that it will be retained in our system at the SOC level. Data will be collected on the three, more detailed occupations, Soil Conservationists, Range Managers, and Park Naturalists.

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<sup>2</sup> In these cases, detailed OUs are linked to an SOC, but as a group may not necessarily describe the entire SOC occupation.



### Example B.

SOC Occupation	O*NET 98 Occupational Units	O*NET 3.0 Occupations
19-1013 Soil and Plant Scientists	24305B Plant Scientists 24305D Soil Scientists	19-1013.00 Soil and Plant Scientists 19-1013.01 Plant Scientists 19-1013.02 Soil Scientists

In this example, the SOC occupation is a “roll-up” of the two more detailed OUs. Therefore, a .00 was assigned to the SOC occupation to show that it will be retained in the O\*NET-SOC system at the SOC level. The extensions .01 and .02 have been assigned to show that the OUs, Plant Scientists and Soil Scientists are more detailed than the SOC occupation. Data are available for these more detailed occupations.

### 3. Many SOC to One OU (30 broader OUs, leading to 75 cases)

In this situation, the SOC has a greater level of detail than O\*NET. Therefore, the same OU data will be displayed for all relevant SOC. The OU title is not part of the new O\*NET-SOC system.

SOC Occupations	O*NET 98 Occupational Unit	O*NET 3.0 Occupations
13-2071 Loan Counselors 13-2072 Loan Officers	21108 Loan Officers and Counselors	13-2071.00 Loan Counselors 13-2072.00 Loan Officers

In this particular example, the SOC occupations are more detailed than the OU. First, the extension .00 has been assigned to the two detailed SOC occupations to show that they will be retained in the O\*NET-SOC system at the SOC level. In addition, the same OU data will be displayed for both SOC. A column will be provided in the O\*NET 3.0 database that describes the data and from which O\*NET occupation it came. Note that in the future, data will be collected separately for the two detailed SOC, Loan Counselors and Loan Officers.

### 4. Detailed SOC does not match to an OU (74 cases)<sup>3</sup>

Sometimes there are no OUs linked to a particular SOC. These occupations have been assigned an SOC code with a .00 extension. There will be a column (status field) within the database that will indicate data are not currently available for the detailed SOC.

SOC Occupation	O*NET 98 Occupational Unit(s)	O*NET 3.0 Occupation
11-1031 Legislators	None	11-1031.00 Legislators

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<sup>3</sup> The 74 cases include 18 military occupations.

The extension .00 has been assigned to the SOC code for Legislators to show that this occupation will be retained in the O\*NET-SOC system at the SOC level. In addition, it will serve as a place holder in the soon-to-be-released O\*NET 3.0 database in the event data will be collected on the specific SOC occupation, Legislators, in the future.

## **5. Temporary Codes for Occupational Code Requests (OCR)**

OCRs are instances where certain occupations that are not currently part of the O\*NET-SOC system are given a temporary code and title and may one day become permanent. Extensions .51-.99 will be reserved for such requests and assigned accordingly.

Code assignment will be a three stage process, and coordination with the Bureau of Labor Statistics will be necessary. First, the new OCR will be examined and linked to the best matching O\*NET-SOC occupation that already exists in the system. For example, if a request is made to add the occupation, Auto Detailer, it may be determined that the best link is to the current O\*NET-SOC occupation, 53-7061.00 Cleaner of Vehicles and Equipment. Second, once the link has been determined, assuming no other OCRs have already been assigned to this O\*NET-SOC occupation, Auto Detailer will be assigned the code 53-7061.51. Third, once permanently added to the O\*NET-SOC system, the extension will become either .00, .01, .02, etc., as appropriate. For example, if two detailed occupations are already linked to 53-7061.00 (codes 53-7061.01 and 53-7061.02), then the code for the newly added occupation, Auto Detailer, will become 53-7061.03. Note, if an OCR cannot be linked to an existing O\*NET-SOC occupation, it will be linked to an “All Other” category and assigned the corresponding code and extension following the procedures above.

## Summary

This document described the important O\*NET to SOC transition initiative, including its overarching principles, action steps taken, and examples of the O\*NET-SOC system. The new O\*NET-SOC system includes 1094 occupational titles of which 974 will include data. See Figure 1 on Page 11 for a visual overview of the transition to the new system. The system used the 749 specific, detailed occupations of the revised SOC as its foundation<sup>4</sup>. O\*NET identified 120 of these occupations to include an additional level of detailed occupations. In other words, multiple O\*NET occupations (a total of 343) were linked to these 120 SOC occupations. The total number of titles included within the database, therefore, is the 749 SOC occupational titles plus the 343 detailed O\*NET occupational titles, along with two exceptional cases (total = 1094)<sup>5</sup>. Currently, for those 120 occupations with added detailed O\*NET occupations, data will be presented and collected at the detailed level and not at the SOC level. The number of occupations at the “data level,” therefore, is the 1094 occupational titles, less the 120 identified occupations (total = 974)<sup>6</sup>.

A new O\*NET-SOC coding system has been implemented throughout new and existing O\*NET products. Coding system situations have been described that present the new codes and linkage types between the revised SOC and O\*NET 98 systems. The four different linkage types are: (a) one SOC to one OU, (b) one SOC to many OUs, (c) many SOC to one OU, and (d) detailed SOC does not match to an OU.

Finally, a crosswalk is available and provided in Attachment 1 of this document that includes the links between the detailed SOC occupations, the O\*NET 98 occupations, and the new O\*NET-SOC (O\*NET 3.0) occupations.

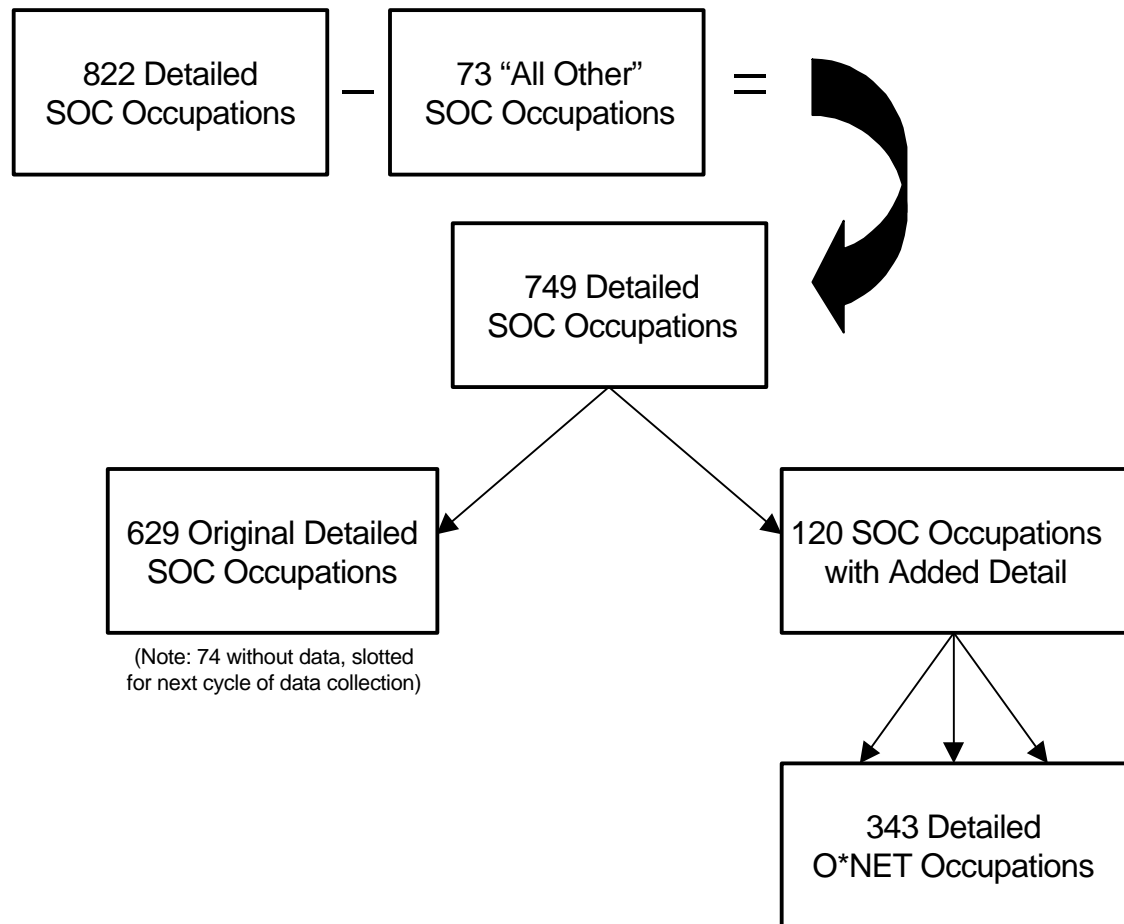
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<sup>4</sup> The 73 “All Other” SOC titles are not included.

<sup>5</sup> The exceptional cases are two O\*NET occupations, Human Resources Managers and Biologists, which are both linked to broader SOC occupations. Therefore, these occupations do not have a detailed SOC code assigned to them. Refer to Page 6 for a detailed description of these two cases.

<sup>6</sup> Currently, 900 of these occupations have data, while the remaining 74 occupations are slotted for the next cycle of the O\*NET incumbent data collection.

Figure 1. SOC & O\*NET Information Included in the O\*NET 3.0 Database



O\*NET-SOC Data Level = 974 Occupations  
(629 Original SOC + 343 Detailed O\*NET + 2 Exceptional Cases)

## Reference

United States Department of Labor, Bureau of Labor Statistics. (1999). *Revising the Standard Occupational Classification System*: Washington, DC: Author.

## ATTACHMENT 1

### SOC to O\*NET OU to O\*NET-SOC Crosswalk (also available in an Excel file)

#### KEYS

##### Data Available

- 1 = data available
- 2 = data currently available and linked to multiple SOC's
- 3 = no data currently available

##### Link (these correspond to Coding System Situations 1- 4)

- 1 = one SOC to one OU
- 2 = one SOC to many OUs
- 3 = many SOC's to one OU
- 4 = detailed SOC does not match to an OU

SOC-OU-ONETSOC crosswalk

SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
11-1011	Chief Executives			11-1011.00	Chief Executives	3	2
11-1011	Chief Executives	19005A	Government Service Executives	11-1011.01	Government Service Executives	1	2
11-1011	Chief Executives	19005B	Private Sector Executives	11-1011.02	Private Sector Executives	1	2
11-1021	General and Operations Managers			11-1021.00	General and Operations Managers	3	4
11-1031	Legislators			11-1031.00	Legislators	3	4
11-2011	Advertising and Promotions Managers	13011A	Advertising and Promotions Managers	11-2011.00	Advertising and Promotions Managers	1	1
11-2021	Marketing Managers	13011C	Marketing Managers	11-2021.00	Marketing Managers	1	1
11-2022	Sales Managers	13011B	Sales Managers	11-2022.00	Sales Managers	1	1
11-2031	Public Relations Managers			11-2031.00	Public Relations Managers	3	4
11-3011	Administrative Services Managers	13014B	Administrative Services Managers	11-3011.00	Administrative Services Managers	1	1
11-3021	Computer and Information Systems Managers	13017C	Computer and Information Systems Managers	11-3021.00	Computer and Information Systems Managers	1	1
11-3031	Financial Managers			11-3031.00	Financial Managers	3	2
11-3031	Financial Managers	13002A	Treasurers, Controllers, and Chief Financial Officers	11-3031.01	Treasurers, Controllers, and Chief Financial Officers	1	2
11-3031	Financial Managers	13002B	Financial Managers, Branch or Department	11-3031.02	Financial Managers, Branch or Department	1	2
11-3040	Human Resources Managers	13005A	Human Resources Managers	11-3040.00	Human Resources Managers	2	3
11-3041	Compensation and Benefits Managers	13005A	Human Resources Managers	11-3041.00	Compensation and Benefits Managers	2	3
11-3042	Training and Development Managers	13005B	Training and Development Managers	11-3042.00	Training and Development Managers	1	1
11-3051	Industrial Production Managers	15014	Industrial Production Managers	11-3051.00	Industrial Production Managers	1	1

SOC-OU-ONETSOC crosswalk

SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
11-3061	Purchasing Managers	13008	Purchasing Managers	11-3061.00	Purchasing Managers	1	1
11-3071	Transportation, Storage, and Distribution Managers			11-3071.00	Transportation, Storage, and Distribution Managers	3	2
11-3071	Transportation, Storage, and Distribution Managers	15023A	Transportation Managers	11-3071.01	Transportation Managers	1	2
11-3071	Transportation, Storage, and Distribution Managers	15023D	Storage and Distribution Managers	11-3071.02	Storage and Distribution Managers	1	2
11-9011	Farm, Ranch, and Other Agricultural Managers			11-9011.00	Farm, Ranch, and Other Agricultural Managers	3	2
11-9011	Farm, Ranch, and Other Agricultural Managers	15031	Nursery and Greenhouse Managers	11-9011.01	Nursery and Greenhouse Managers	1	2
11-9011	Farm, Ranch, and Other Agricultural Managers	79999K	Agricultural Crop Farm Managers	11-9011.02	Agricultural Crop Farm Managers	1	2
11-9011	Farm, Ranch, and Other Agricultural Managers	79999M	Fish Hatchery Managers	11-9011.03	Fish Hatchery Managers	1	2
11-9012	Farmers and Ranchers	79999D	Farmers	11-9012.00	Farmers and Ranchers	1	1
11-9021	Construction Managers	15017B	Construction Managers	11-9021.00	Construction Managers	1	1
11-9031	Education Administrators, Preschool and Child Care Center/Program	15005B	Educational Program Directors	11-9031.00	Education Administrators, Preschool and Child Care Center/Program	2	3
11-9032	Education Administrators, Elementary and Secondary School	15005B	Educational Program Directors	11-9032.00	Education Administrators, Elementary and Secondary School	2	3
11-9033	Education Administrators, Postsecondary	15005A	College and University Administrators	11-9033.00	Education Administrators, Postsecondary	1	1
11-9041	Engineering Managers	13017A	Engineering Managers	11-9041.00	Engineering Managers	1	1
11-9051	Food Service Managers	15026B	Food-Service Managers	11-9051.00	Food Service Managers	1	1
11-9061	Funeral Directors	39011	Funeral Directors and Morticians	11-9061.00	Funeral Directors	1	1
11-9071	Gaming Managers	19999E	Gambling Establishment Managers	11-9071.00	Gaming Managers	2	3
11-9081	Lodging Managers	15026A	Lodging Managers	11-9081.00	Lodging Managers	1	1



SOC-OU-ONETSOC crosswalk

SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
11-9111	Medical and Health Services Managers	15008B	Medical and Health Services Managers	11-9111.00	Medical and Health Services Managers	1	1
11-9121	Natural Sciences Managers	13017B	Natural Sciences Managers	11-9121.00	Natural Sciences Managers	1	1
11-9131	Postmasters and Mail Superintendents	15002	Postmasters and Mail Superintendents	11-9131.00	Postmasters and Mail Superintendents	1	1
11-9141	Property, Real Estate, and Community Association Managers	15011B	Property, Real Estate, and Community Association Managers	11-9141.00	Property, Real Estate, and Community Association Managers	1	1
11-9151	Social and Community Service Managers	19999B	Social and Community Service Managers	11-9151.00	Social and Community Service Managers	1	1
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	39999B	Agents and Business Managers of Artists, Performers, and Athletes	13-1011.00	Agents and Business Managers of Artists, Performers, and Athletes	1	1
13-1021	Purchasing Agents and Buyers, Farm Products	21305A	Purchasing Agents and Buyers, Farm Products	13-1021.00	Purchasing Agents and Buyers, Farm Products	1	1
13-1022	Wholesale and Retail Buyers, Except Farm Products	21302	Wholesale and Retail Buyers, Except Farm Products	13-1022.00	Wholesale and Retail Buyers, Except Farm Products	1	1
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	21308A	Purchasing Agents and Contract Specialists	13-1023.00	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1	1
13-1031	Claims Adjusters, Examiners, and Investigators			13-1031.00	Claims Adjusters, Examiners, and Investigators	3	2
13-1031	Claims Adjusters, Examiners, and Investigators	21921	Claims Examiners, Property and Casualty Insurance	13-1031.01	Claims Examiners, Property and Casualty Insurance	1	2
13-1031	Claims Adjusters, Examiners, and Investigators	53302	Insurance Adjusters, Examiners, and Investigators	13-1031.02	Insurance Adjusters, Examiners, and Investigators	1	2
13-1032	Insurance Appraisers, Auto Damage	53305	Insurance Appraisers, Auto Damage	13-1032.00	Insurance Appraisers, Auto Damage	1	1
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation			13-1041.00	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	3	2

SOC-OU-ONETSOC crosswalk

SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911B	Environmental Compliance Inspectors	13-1041.01	Environmental Compliance Inspectors	1	2
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911D	Licensing Examiners and Inspectors	13-1041.02	Licensing Examiners and Inspectors	1	2
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911F	Equal Opportunity Representatives and Officers	13-1041.03	Equal Opportunity Representatives and Officers	1	2
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911H	Government Property Inspectors and Investigators	13-1041.04	Government Property Inspectors and Investigators	1	2
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911L	Pressure Vessel Inspectors	13-1041.05	Pressure Vessel Inspectors	1	2
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	21911P	Coroners	13-1041.06	Coroners	1	2
13-1051	Cost Estimators	21902	Cost Estimators	13-1051.00	Cost Estimators	1	1
13-1061	Emergency Management Specialists			13-1061.00	Emergency Management Specialists	3	4
13-1071	Employment, Recruitment, and Placement Specialists			13-1071.00	Employment, Recruitment, and Placement Specialists	3	2
13-1071	Employment, Recruitment, and Placement Specialists	21508	Employment Interviewers, Private or Public Employment Service	13-1071.01	Employment Interviewers, Private or Public Employment Service	1	2
13-1071	Employment, Recruitment, and Placement Specialists	21511E	Personnel Recruiters	13-1071.02	Personnel Recruiters	1	2
13-1072	Compensation, Benefits, and Job Analysis Specialists	21511A	Job and Occupational Analysts	13-1072.00	Compensation, Benefits, and Job Analysis Specialists	1	1

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<b>SOC</b>	<b>SOC TITLE</b>	<b>O*NET 98</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA</b>	<b>link</b>
<b>CODE</b>		<b>(OU)</b>		<b>(O*NET-SOC)</b>		<b>AVAIL.</b>	
<b>CODE</b>		<b>CODE</b>		<b>CODE</b>			
13-1073	Training and Development Specialists	21511D	Employee Training Specialists	13-1073.00	Training and Development Specialists	1	1
13-1081	Logisticians			13-1081.00	Logisticians	3	4
13-1111	Management Analysts	21905	Management Analysts	13-1111.00	Management Analysts	1	1
13-1121	Meeting and Convention Planners	21999F	Meetings and Convention Planners	13-1121.00	Meeting and Convention Planners	1	1
13-2011	Accountants and Auditors			13-2011.00	Accountants and Auditors	3	2
13-2011	Accountants and Auditors	21114A	Accountants	13-2011.01	Accountants	1	2
13-2011	Accountants and Auditors	21114B	Auditors	13-2011.02	Auditors	1	2
13-2021	Appraisers and Assessors of Real Estate			13-2021.00	Appraisers and Assessors of Real Estate	3	2
13-2021	Appraisers and Assessors of Real Estate	21917	Assessors	13-2021.01	Assessors	1	2
13-2021	Appraisers and Assessors of Real Estate	43011	Appraisers, Real Estate	13-2021.02	Appraisers, Real Estate	1	2
13-2031	Budget Analysts	21117	Budget Analysts	13-2031.00	Budget Analysts	1	1
13-2041	Credit Analysts	21105	Credit Analysts	13-2041.00	Credit Analysts	1	1
13-2051	Financial Analysts	25315	Financial Analysts, Statistical	13-2051.00	Financial Analysts	1	1
13-2052	Personal Financial Advisors	21199B	Financial Counselors	13-2052.00	Personal Financial Advisors	1	1
13-2053	Insurance Underwriters	21102	Underwriters	13-2053.00	Insurance Underwriters	1	1
13-2061	Financial Examiners	21911J	Financial Examiners	13-2061.00	Financial Examiners	1	1
13-2071	Loan Counselors	21108	Loan Officers and Counselors	13-2071.00	Loan Counselors	2	3
13-2072	Loan Officers	21108	Loan Officers and Counselors	13-2072.00	Loan Officers	2	3
13-2081	Tax Examiners, Collectors, and Revenue Agents	21914	Tax Examiners, Collectors, and Revenue Agents	13-2081.00	Tax Examiners, Collectors, and Revenue Agents	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
13-2082	Tax Preparers	21111	Tax Preparers	13-2082.00	Tax Preparers	1	1
15-1011	Computer and Information Scientists, Research			15-1011.00	Computer and Information Scientists, Research	3	4
15-1021	Computer Programmers	25105	Computer Programmers	15-1021.00	Computer Programmers	1	1
15-1031	Computer Software Engineers, Applications	22127	Computer Engineers	15-1031.00	Computer Software Engineers, Applications	2	3
15-1032	Computer Software Engineers, Systems Software	22127	Computer Engineers	15-1032.00	Computer Software Engineers, Systems Software	2	3
15-1041	Computer Support Specialists	25104	Computer Support Specialists	15-1041.00	Computer Support Specialists	1	1
15-1051	Computer Systems Analysts	25102	Systems Analysts, Electronic Data Processing	15-1051.00	Computer Systems Analysts	1	1
15-1061	Database Administrators	25103A	Database Administrators	15-1061.00	Database Administrators	1	1
15-1071	Network and Computer Systems Administrators			15-1071.00	Network and Computer Systems Administrators	3	2
15-1071	Network and Computer Systems Administrators	21999A	Computer Security Specialists	15-1071.01	Computer Security Specialists	1	2
15-1081	Network Systems and Data Communications Analysts	25199A	Data Communications Analysts	15-1081.00	Network Systems and Data Communications Analysts	1	1
15-2011	Actuaries	25313	Actuaries	15-2011.00	Actuaries	1	1
15-2021	Mathematicians	25319A	Mathematicians	15-2021.00	Mathematicians	1	1
15-2031	Operations Research Analysts	25302	Operations and Systems Researchers and Analysts	15-2031.00	Operations Research Analysts	1	1
15-2041	Statisticians	25312	Statisticians	15-2041.00	Statisticians	1	1
15-3011	Mathematical Technicians	25323	Mathematical Technicians	15-3011.00	Mathematical Technicians	1	1
17-1011	Architects, Except Landscape and Naval	22302	Architects, Except Landscape and Marine	17-1011.00	Architects, Except Landscape and Naval	1	1
17-1012	Landscape Architects	22308	Landscape Architects	17-1012.00	Landscape Architects	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
17-1021	Cartographers and Photogrammetrists	22311A	Cartographers and Photogrammetrists	17-1021.00	Cartographers and Photogrammetrists	1	1
17-1022	Surveyors	22311B	Surveyors	17-1022.00	Surveyors	1	1
17-2011	Aerospace Engineers	22102	Aerospace Engineers	17-2011.00	Aerospace Engineers	1	1
17-2021	Agricultural Engineers	22123	Agricultural Engineers	17-2021.00	Agricultural Engineers	1	1
17-2031	Biomedical Engineers			17-2031.00	Biomedical Engineers	3	4
17-2041	Chemical Engineers	22114	Chemical Engineers	17-2041.00	Chemical Engineers	1	1
17-2051	Civil Engineers	22121	Civil Engineers, Including Traffic	17-2051.00	Civil Engineers	1	1
17-2061	Computer Hardware Engineers	22127	Computer Engineers	17-2061.00	Computer Hardware Engineers	2	3
17-2071	Electrical Engineers	22126A	Electrical Engineers	17-2071.00	Electrical Engineers	1	1
17-2072	Electronics Engineers, Except Computer	22126B	Electronics Engineers, except Computer	17-2072.00	Electronics Engineers, Except Computer	1	1
17-2081	Environmental Engineers			17-2081.00	Environmental Engineers	3	4
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors			17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	3	2
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	22132A	Industrial Safety and Health Engineers	17-2111.01	Industrial Safety and Health Engineers	1	2
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	22132B	Fire-Prevention and Protection Engineers	17-2111.02	Fire-Prevention and Protection Engineers	1	2
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	22132C	Product Safety Engineers	17-2111.03	Product Safety Engineers	1	2
17-2112	Industrial Engineers	22128	Industrial Engineers, Except Safety	17-2112.00	Industrial Engineers	1	1
17-2121	Marine Engineers and Naval Architects			17-2121.00	Marine Engineers and Naval Architects	3	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
17-2121	Marine Engineers and Naval Architects	22138	Marine Engineers	17-2121.01	Marine Engineers	1	2
17-2121	Marine Engineers and Naval Architects	22305	Marine Architects	17-2121.02	Marine Architects	1	2
17-2131	Materials Engineers	22105D	Materials Engineers	17-2131.00	Materials Engineers	1	1
17-2141	Mechanical Engineers	22135	Mechanical Engineers	17-2141.00	Mechanical Engineers	1	1
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	22108	Mining Engineers, Including Mine Safety	17-2151.00	Mining and Geological Engineers, Including Mining Safety Engineers	1	1
17-2161	Nuclear Engineers	22117	Nuclear Engineers	17-2161.00	Nuclear Engineers	1	1
17-2171	Petroleum Engineers	22111	Petroleum Engineers	17-2171.00	Petroleum Engineers	1	1
17-3011	Architectural and Civil Drafters			17-3011.00	Architectural and Civil Drafters	3	2
17-3011	Architectural and Civil Drafters	22514A	Architectural Drafters	17-3011.01	Architectural Drafters	1	2
17-3011	Architectural and Civil Drafters	22514C	Civil Drafters	17-3011.02	Civil Drafters	1	2
17-3012	Electrical and Electronics Drafters			17-3012.00	Electrical and Electronics Drafters	3	2
17-3012	Electrical and Electronics Drafters	22514B	Electronic Drafters	17-3012.01	Electronic Drafters	1	2
17-3012	Electrical and Electronics Drafters	22517	Estimators and Drafters, Utilities	17-3012.02	Electrical Drafters	1	2
17-3013	Mechanical Drafters	22514D	Mechanical Drafters	17-3013.00	Mechanical Drafters	1	1
17-3021	Aerospace Engineering and Operations Technicians	22599C	Aerospace Engineering Technicians	17-3021.00	Aerospace Engineering and Operations Technicians	1	1
17-3022	Civil Engineering Technicians	22502	Civil Engineering Technicians	17-3022.00	Civil Engineering Technicians	1	1
17-3023	Electrical and Electronic Engineering Technicians			17-3023.00	Electrical and Electronic Engineering Technicians	3	2
17-3023	Electrical and Electronic Engineering Technicians	22505A	Electronics Engineering Technicians	17-3023.01	Electronics Engineering Technicians	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
17-3023	Electrical and Electronic Engineering Technicians	22505B	Calibration and Instrumentation Technicians	17-3023.02	Calibration and Instrumentation Technicians	1	2
17-3023	Electrical and Electronic Engineering Technicians	22505C	Electrical Engineering Technicians	17-3023.03	Electrical Engineering Technicians	1	2
17-3024	Electro-Mechanical Technicians	93111B	Electromechanical Technicians	17-3024.00	Electro-Mechanical Technicians	1	1
17-3025	Environmental Engineering Technicians			17-3025.00	Environmental Engineering Technicians	3	4
17-3026	Industrial Engineering Technicians	22508	Industrial Engineering Technicians and Technologists	17-3026.00	Industrial Engineering Technicians	1	1
17-3027	Mechanical Engineering Technicians	22511	Mechanical Engineering Technicians and Technologists	17-3027.00	Mechanical Engineering Technicians	1	1
17-3031	Surveying and Mapping Technicians			17-3031.00	Surveying and Mapping Technicians	3	2
17-3031	Surveying and Mapping Technicians	22521A	Surveying Technicians	17-3031.01	Surveying Technicians	1	2
17-3031	Surveying and Mapping Technicians	22521B	Mapping Technicians	17-3031.02	Mapping Technicians	1	2
19-1011	Animal Scientists	24305A	Animal Scientists	19-1011.00	Animal Scientists	1	1
19-1012	Food Scientists and Technologists	24305C	Food Scientists	19-1012.00	Food Scientists and Technologists	1	1
19-1013	Soil and Plant Scientists			19-1013.00	Soil and Plant Scientists	3	2
19-1013	Soil and Plant Scientists	24305B	Plant Scientists	19-1013.01	Plant Scientists	1	2
19-1013	Soil and Plant Scientists	24305D	Soil Scientists	19-1013.02	Soil Scientists	1	2
19-1020	Biological Scientists	24308B	Biologists	19-1020.01	Biologists	1	1
19-1021	Biochemists and Biophysicists			19-1021.00	Biochemists and Biophysicists	3	2
19-1021	Biochemists and Biophysicists	24308A	Biochemists	19-1021.01	Biochemists	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
19-1021	Biochemists and Biophysicists	24308C	Biophysicists	19-1021.02	Biophysicists	1	2
19-1022	Microbiologists	24308E	Microbiologists	19-1022.00	Microbiologists	1	1
19-1023	Zoologists and Wildlife Biologists	24308H	Zoologists	19-1023.00	Zoologists and Wildlife Biologists	1	1
19-1031	Conservation Scientists			19-1031.00	Conservation Scientists	3	2
19-1031	Conservation Scientists	24302B	Soil Conservationists	19-1031.01	Soil Conservationists	1	2
19-1031	Conservation Scientists	24302D	Range Managers	19-1031.02	Range Managers	1	2
19-1031	Conservation Scientists	24302E	Park Naturalists	19-1031.03	Park Naturalists	1	2
19-1032	Foresters	24302A	Foresters	19-1032.00	Foresters	1	1
19-1041	Epidemiologists	24311	Medical Scientists	19-1041.00	Epidemiologists	2	3
19-1042	Medical Scientists, Except Epidemiologists	24311	Medical Scientists	19-1042.00	Medical Scientists, Except Epidemiologists	2	3
19-2011	Astronomers	24102B	Astronomers	19-2011.00	Astronomers	1	1
19-2012	Physicists	24102A	Physicists	19-2012.00	Physicists	1	1
19-2021	Atmospheric and Space Scientists	24108	Atmospheric and Space Scientists	19-2021.00	Atmospheric and Space Scientists	1	1
19-2031	Chemists	24105	Chemists, Except Biochemists	19-2031.00	Chemists	1	1
19-2032	Materials Scientists	24199C	Materials Scientists	19-2032.00	Materials Scientists	1	1
19-2041	Environmental Scientists and Specialists, Including Health	24199B	Environmental Scientists	19-2041.00	Environmental Scientists and Specialists, Including Health	1	1
19-2042	Geoscientists, Except Hydrologists and Geographers			19-2042.00	Geoscientists, Except Hydrologists and Geographers	3	2



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<b>SOC</b>	<b>SOC TITLE</b>	<b>O*NET 98</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA</b>	<b>link</b>
<b>CODE</b>		<b>(OU)</b>		<b>(O*NET-SOC)</b>		<b>AVAIL.</b>	
<b>CODE</b>		<b>CODE</b>		<b>CODE</b>			
19-2042	Geoscientists, Except Hydrologists and Geographers	24111A	Geologists	19-2042.01	Geologists	1	2
19-2043	Hydrologists	24111B	Geophysicists	19-2043.00	Hydrologists	1	1
19-3011	Economists	27102A	Economists	19-3011.00	Economists	1	1
19-3021	Market Research Analysts	27102B	Market Research Analysts	19-3021.00	Market Research Analysts	1	1
19-3022	Survey Researchers			19-3022.00	Survey Researchers	3	4
19-3031	Clinical, Counseling, and School Psychologists			19-3031.00	Clinical, Counseling, and School Psychologists	3	2
19-3031	Clinical, Counseling, and School Psychologists	27108D	Educational Psychologists	19-3031.01	Educational Psychologists	1	2
19-3031	Clinical, Counseling, and School Psychologists	27108G	Clinical Psychologists	19-3031.02	Clinical Psychologists	1	2
19-3031	Clinical, Counseling, and School Psychologists	27108H	Counseling Psychologists	19-3031.03	Counseling Psychologists	1	2
19-3032	Industrial-Organizational Psychologists	27108J	Industrial-Organizational Psychologists	19-3032.00	Industrial-Organizational Psychologists	1	1
19-3041	Sociologists	27199B	Sociologists	19-3041.00	Sociologists	1	1
19-3051	Urban and Regional Planners	27105	Urban and Regional Planners	19-3051.00	Urban and Regional Planners	1	1
19-3091	Anthropologists and Archeologists			19-3091.00	Anthropologists and Archeologists	3	2
19-3091	Anthropologists and Archeologists	27199C	Anthropologists	19-3091.01	Anthropologists	1	2
19-3091	Anthropologists and Archeologists	27199H	Archeologists	19-3091.02	Archeologists	1	2
19-3092	Geographers	24199A	Geographers	19-3092.00	Geographers	1	1
19-3093	Historians	27199E	Historians	19-3093.00	Historians	1	1
19-3094	Political Scientists	27199A	Political Scientists	19-3094.00	Political Scientists	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
19-4011	Agricultural and Food Science Technicians			19-4011.00	Agricultural and Food Science Technicians	3	2
19-4011	Agricultural and Food Science Technicians	24502C	Biological and Agricultural Technicians	19-4011.01	Agricultural Technicians	1	2
19-4011	Agricultural and Food Science Technicians	24505B	Food Science Technicians	19-4011.02	Food Science Technicians	1	2
19-4021	Biological Technicians	24502C	Biological and Agricultural Technicians	19-4021.00	Biological Technicians	1	1
19-4031	Chemical Technicians	24505A	Chemical Technicians	19-4031.00	Chemical Technicians	1	1
19-4041	Geological and Petroleum Technicians			19-4041.00	Geological and Petroleum Technicians	3	2
19-4041	Geological and Petroleum Technicians	24511B	Geological Data Technicians	19-4041.01	Geological Data Technicians	1	2
19-4041	Geological and Petroleum Technicians	24511E	Geological Sample Test Technicians	19-4041.02	Geological Sample Test Technicians	1	2
19-4051	Nuclear Technicians			19-4051.00	Nuclear Technicians	3	2
19-4051	Nuclear Technicians	24508A	Nuclear Equipment Operation Technicians	19-4051.01	Nuclear Equipment Operation Technicians	1	2
19-4051	Nuclear Technicians	24508B	Nuclear Monitoring Technicians	19-4051.02	Nuclear Monitoring Technicians	1	2
19-4061	Social Science Research Assistants			19-4061.00	Social Science Research Assistants	3	2
19-4061	Social Science Research Assistants	39999C	City Planning Aides	19-4061.01	City Planning Aides	1	2
19-4091	Environmental Science and Protection Technicians, Including Health	24505E	Environmental Science Technicians	19-4091.00	Environmental Science and Protection Technicians, Including Health	1	1
19-4092	Forensic Science Technicians	24599B	Criminalists and Ballistics Experts	19-4092.00	Forensic Science Technicians	1	1
19-4093	Forest and Conservation Technicians			19-4093.00	Forest and Conservation Technicians	3	4
21-1011	Substance Abuse and Behavioral Disorder Counselors	27302	Social Workers, Medical and Psychiatric	21-1011.00	Substance Abuse and Behavioral Disorder Counselors	2	3
21-1012	Educational, Vocational, and School Counselors	31514	Vocational and Educational Counselors	21-1012.00	Educational, Vocational, and School Counselors	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
21-1013	Marriage and Family Therapists			21-1013.00	Marriage and Family Therapists	3	4
21-1014	Mental Health Counselors	27302	Social Workers, Medical and Psychiatric	21-1014.00	Mental Health Counselors	2	3
21-1015	Rehabilitation Counselors			21-1015.00	Rehabilitation Counselors	3	4
21-1021	Child, Family, and School Social Workers	27305B	Social Workers	21-1021.00	Child, Family, and School Social Workers	1	1
21-1022	Medical and Public Health Social Workers	27302	Social Workers, Medical and Psychiatric	21-1022.00	Medical and Public Health Social Workers	2	3
21-1023	Mental Health and Substance Abuse Social Workers	27302	Social Workers, Medical and Psychiatric	21-1023.00	Mental Health and Substance Abuse Social Workers	2	3
21-1091	Health Educators	31517A	Public Health Educators	21-1091.00	Health Educators	1	1
21-1092	Probation Officers and Correctional Treatment Specialists	27305C	Probation and Correctional Treatment Specialists	21-1092.00	Probation Officers and Correctional Treatment Specialists	1	1
21-1093	Social and Human Service Assistants	27308	Human Services Workers	21-1093.00	Social and Human Service Assistants	1	1
21-2011	Clergy	27502	Clergy	21-2011.00	Clergy	1	1
21-2021	Directors, Religious Activities and Education	27505	Directors, Religious Activities and Education	21-2021.00	Directors, Religious Activities and Education	1	1
23-1011	Lawyers	28108	Lawyers	23-1011.00	Lawyers	1	1
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	28105	Adjudicators, Hearings Officers, and Judicial Reviewers	23-1021.00	Administrative Law Judges, Adjudicators, and Hearing Officers	2	3
23-1022	Arbitrators, Mediators, and Conciliators	28105	Adjudicators, Hearings Officers, and Judicial Reviewers	23-1022.00	Arbitrators, Mediators, and Conciliators	2	3
23-1023	Judges, Magistrate Judges, and Magistrates	28102	Judges and Magistrates	23-1023.00	Judges, Magistrate Judges, and Magistrates	1	1
23-2011	Paralegals and Legal Assistants	28305	Paralegals and Legal Assistants	23-2011.00	Paralegals and Legal Assistants	1	1
23-2091	Court Reporters			23-2091.00	Court Reporters	3	4

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
23-2092	Law Clerks	28302	Law Clerks	23-2092.00	Law Clerks	1	1
23-2093	Title Examiners, Abstractors, and Searchers			23-2093.00	Title Examiners, Abstractors, and Searchers	3	2
23-2093	Title Examiners, Abstractors, and Searchers	28308	Title Searchers	23-2093.01	Title Searchers	1	2
23-2093	Title Examiners, Abstractors, and Searchers	28311	Title Examiners and Abstractors	23-2093.02	Title Examiners and Abstractors	1	2
25-1011	Business Teachers, Postsecondary			25-1011.00	Business Teachers, Postsecondary	3	4
25-1021	Computer Science Teachers, Postsecondary	31226	Computer Science Teachers- Postsecondary	25-1021.00	Computer Science Teachers, Postsecondary	1	1
25-1022	Mathematical Science Teachers, Postsecondary	31224	Mathematical Sciences Teachers- Postsecondary	25-1022.00	Mathematical Science Teachers, Postsecondary	1	1
25-1031	Architecture Teachers, Postsecondary			25-1031.00	Architecture Teachers, Postsecondary	3	4
25-1032	Engineering Teachers, Postsecondary	31222	Engineering Teachers- Postsecondary	25-1032.00	Engineering Teachers, Postsecondary	1	1
25-1041	Agricultural Sciences Teachers, Postsecondary	31202	Life Sciences Teachers- Postsecondary	25-1041.00	Agricultural Sciences Teachers, Postsecondary	2	3
25-1042	Biological Science Teachers, Postsecondary	31202	Life Sciences Teachers- Postsecondary	25-1042.00	Biological Science Teachers, Postsecondary	2	3
25-1043	Forestry and Conservation Science Teachers, Postsecondary	31202	Life Sciences Teachers-  Postsecondary	25-1043.00	Forestry and Conservation Science Teachers,  Postsecondary	2	3
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary			25-1051.00	Atmospheric, Earth, Marine, and Space Sciences  Teachers, Postsecondary	3	4
25-1052	Chemistry Teachers, Postsecondary	31204	Chemistry Teachers- Postsecondary	25-1052.00	Chemistry Teachers, Postsecondary	1	1
25-1053	Environmental Science Teachers, Postsecondary			25-1053.00	Environmental Science Teachers, Postsecondary	3	4
25-1054	Physics Teachers, Postsecondary	31206	Physics Teachers- Postsecondary	25-1054.00	Physics Teachers, Postsecondary	1	1
25-1061	Anthropology and Archeology Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1061.00	Anthropology and Archeology Teachers, Postsecondary	2	3

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25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1062.00	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	2	3
25-1063	Economics Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1063.00	Economics Teachers, Postsecondary	2	3
25-1064	Geography Teachers, Postsecondary			25-1064.00	Geography Teachers, Postsecondary	3	4
25-1065	Political Science Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1065.00	Political Science Teachers, Postsecondary	2	3
25-1066	Psychology Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1066.00	Psychology Teachers, Postsecondary	2	3
25-1067	Sociology Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1067.00	Sociology Teachers, Postsecondary	2	3
25-1071	Health Specialties Teachers, Postsecondary	31212	Health Specialties Teachers- Postsecondary	25-1071.00	Health Specialties Teachers, Postsecondary	1	1
25-1072	Nursing Instructors and Teachers, Postsecondary	31114	Nursing Instructors- Postsecondary	25-1072.00	Nursing Instructors and Teachers, Postsecondary	1	1
25-1081	Education Teachers, Postsecondary			25-1081.00	Education Teachers, Postsecondary	3	4
25-1082	Library Science Teachers, Postsecondary			25-1082.00	Library Science Teachers, Postsecondary	3	4
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary			25-1111.00	Criminal Justice and Law Enforcement Teachers, Postsecondary	3	4
25-1112	Law Teachers, Postsecondary			25-1112.00	Law Teachers, Postsecondary	3	4
25-1113	Social Work Teachers, Postsecondary			25-1113.00	Social Work Teachers, Postsecondary	3	4
25-1121	Art, Drama, and Music Teachers, Postsecondary	31218	Art, Drama, and Music Teachers- Postsecondary	25-1121.00	Art, Drama, and Music Teachers, Postsecondary	1	1
25-1122	Communications Teachers, Postsecondary			25-1122.00	Communications Teachers, Postsecondary	3	4
25-1123	English Language and Literature Teachers, Postsecondary	31216	English and Foreign Language Teachers- Postsecondary	25-1123.00	English Language and Literature Teachers, Postsecondary	2	3
25-1124	Foreign Language and Literature Teachers, Postsecondary	31216	English and Foreign Language Teachers- Postsecondary	25-1124.00	Foreign Language and Literature Teachers, Postsecondary	2	3

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25-1125	History Teachers, Postsecondary	31210	Social Science Teachers- Postsecondary	25-1125.00	History Teachers, Postsecondary	2	3
25-1126	Philosophy and Religion Teachers, Postsecondary			25-1126.00	Philosophy and Religion Teachers, Postsecondary	3	4
25-1191	Graduate Teaching Assistants	31117	Graduate Assistants, Teaching	25-1191.00	Graduate Teaching Assistants	1	1
25-1192	Home Economics Teachers, Postsecondary			25-1192.00	Home Economics Teachers, Postsecondary	3	4
25-1193	Recreation and Fitness Studies Teachers, Postsecondary			25-1193.00	Recreation and Fitness Studies Teachers, Postsecondary	3	4
25-1194	Vocational Education Teachers Postsecondary	31314	Teachers and Instructors, Vocational Education and Training	25-1194.00	Vocational Education Teachers Postsecondary	1	1
25-2011	Preschool Teachers, Except Special Education	31303	Teachers, Preschool	25-2011.00	Preschool Teachers, Except Special Education	1	1
25-2012	Kindergarten Teachers, Except Special Education	31304	Teachers, Kindergarten	25-2012.00	Kindergarten Teachers, Except Special Education	1	1
25-2021	Elementary School Teachers, Except Special Education	31305	Teachers, Elementary School	25-2021.00	Elementary School Teachers, Except Special Education	1	1
25-2022	Middle School Teachers, Except Special and Vocational Education	31308	Teachers, Secondary School	25-2022.00	Middle School Teachers, Except Special and Vocational Education	2	3
25-2023	Vocational Education Teachers, Middle School	31308	Teachers, Secondary School	25-2023.00	Vocational Education Teachers, Middle School	2	3
25-2031	Secondary School Teachers, Except Special and Vocational Education	31308	Teachers, Secondary School	25-2031.00	Secondary School Teachers, Except Special and Vocational Education	2	3
25-2032	Vocational Education Teachers, Secondary School	31308	Teachers, Secondary School	25-2032.00	Vocational Education Teachers, Secondary School	2	3
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	31311B	Teachers- Emotionally Impaired, Mentally Impaired, and Learning Disabled	25-2041.00	Special Education Teachers, Preschool, Kindergarten, and Elementary School	2	3

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25-2042	Special Education Teachers,  Middle School	31311B	Teachers- Emotionally Impaired, Mentally Impaired, and Learning Disabled	25-2042.00	Special Education Teachers, Middle School	2	3
25-2043	Special Education Teachers,  Secondary School	31311B	Teachers- Emotionally Impaired, Mentally Impaired, and Learning Disabled	25-2043.00	Special Education Teachers, Secondary School	2	3
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	31317	Instructors, Nonvocational  Education	25-3011.00	Adult Literacy, Remedial Education, and GED  Teachers and Instructors	2	3
25-3021	Self-Enrichment Education Teachers	31317	Instructors, Nonvocational Education	25-3021.00	Self-Enrichment Education Teachers	2	3
25-4011	Archivists	31511B	Archivists	25-4011.00	Archivists	1	1
25-4012	Curators	31511A	Curators	25-4012.00	Curators	1	1
25-4013	Museum Technicians and Conservators	31511D	Museum Technicians and Conservators	25-4013.00	Museum Technicians and Conservators	1	1
25-4021	Librarians	31502A	Librarians	25-4021.00	Librarians	1	1
25-4031	Library Technicians	31505	Technical Assistants, Library	25-4031.00	Library Technicians	1	1
25-9011	Audio-Visual Collections Specialists	31508	Audio-Visual Specialists	25-9011.00	Audio-Visual Collections Specialists	2	3
25-9021	Farm and Home Management Advisors	31323	Farm and Home Management Advisors	25-9021.00	Farm and Home Management Advisors	1	1
25-9031	Instructional Coordinators	31517D	Instructional Coordinators	25-9031.00	Instructional Coordinators	1	1
25-9041	Teacher Assistants	31521	Teacher Aides, Paraprofessional	25-9041.00	Teacher Assistants	1	1
27-1011	Art Directors	34038E	Art Directors	27-1011.00	Art Directors	1	1
27-1012	Craft Artists			27-1012.00	Craft Artists	3	4
27-1013	Fine Artists, Including Painters,  Sculptors, and Illustrators			27-1013.00	Fine Artists, Including Painters, Sculptors, and  Illustrators	3	2

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27-1013	Fine Artists, Including Painters,  Sculptors, and Illustrators	34035A	Painters and Illustrators	27-1013.01	Painters and Illustrators	1	2
27-1013	Fine Artists, Including Painters,  Sculptors, and Illustrators	34035B	Sketch Artists	27-1013.02	Sketch Artists	1	2
27-1013	Fine Artists, Including Painters,  Sculptors, and Illustrators	34035D	Cartoonists and Animators	27-1013.03	Cartoonists	1	2
27-1013	Fine Artists, Including Painters,  Sculptors, and Illustrators	34035E	Sculptors	27-1013.04	Sculptors	1	2
27-1014	Multi-Media Artists and Animators			27-1014.00	Multi-Media Artists and Animators	3	4
27-1021	Commercial and Industrial Designers	34038B	Commercial and Industrial Designers	27-1021.00	Commercial and Industrial Designers	1	1
27-1022	Fashion Designers	34038A	Fashion Designers	27-1022.00	Fashion Designers	1	1
27-1023	Floral Designers	34038F	Floral Designers	27-1023.00	Floral Designers	1	1
27-1024	Graphic Designers	34035C	Graphic Designers	27-1024.00	Graphic Designers	1	1
27-1025	Interior Designers	34041	Interior Designers	27-1025.00	Interior Designers	1	1
27-1026	Merchandise Displayers and Window Trimmers	34044	Merchandise Displayers and Window Trimmers	27-1026.00	Merchandise Displayers and Window Trimmers	1	1
27-1027	Set and Exhibit Designers			27-1027.00	Set and Exhibit Designers	3	2
27-1027	Set and Exhibit Designers	34038C	Set Designers	27-1027.01	Set Designers	1	2
27-1027	Set and Exhibit Designers	34038D	Exhibit Designers	27-1027.02	Exhibit Designers	1	2
27-2011	Actors	34056A	Actors and Performers	27-2011.00	Actors	1	1
27-2012	Producers and Directors			27-2012.00	Producers and Directors	3	2
27-2012	Producers and Directors	34056F	Producers	27-2012.01	Producers	1	2



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27-2012	Producers and Directors	34056G	Directors- Stage, Motion Pictures, Television, and Radio	27-2012.02	Directors- Stage, Motion Pictures, Television, and Radio	1	2
27-2012	Producers and Directors	34056H	Program Directors	27-2012.03	Program Directors	1	2
27-2012	Producers and Directors	34056J	Talent Directors	27-2012.04	Talent Directors	1	2
27-2012	Producers and Directors	34056K	Technical Directors/Managers	27-2012.05	Technical Directors/Managers	1	2
27-2021	Athletes and Sports Competitors	34058C	Professional Athletes	27-2021.00	Athletes and Sports Competitors	1	1
27-2022	Coaches and Scouts	34058A	Coaches and Scouts	27-2022.00	Coaches and Scouts	1	1
27-2023	Umpires, Referees, and Other Sports Officials	34058L	Umpires, Referees, and Other Sports Officials	27-2023.00	Umpires, Referees, and Other Sports Officials	1	1
27-2031	Dancers	34053A	Dancers	27-2031.00	Dancers	1	1
27-2032	Choreographers	34053B	Choreographers	27-2032.00	Choreographers	1	1
27-2041	Music Directors and Composers			27-2041.00	Music Directors and Composers	3	2
27-2041	Music Directors and Composers	34047A	Music Directors	27-2041.01	Music Directors	1	2
27-2041	Music Directors and Composers	34047B	Music Arrangers and Orchestrators	27-2041.02	Music Arrangers and Orchestrators	1	2
27-2041	Music Directors and Composers	34047E	Composers	27-2041.03	Composers	1	2
27-2042	Musicians and Singers			27-2042.00	Musicians and Singers	3	2
27-2042	Musicians and Singers	34047C	Singers	27-2042.01	Singers	1	2
27-2042	Musicians and Singers	34051	Musicians, Instrumental	27-2042.02	Musicians, Instrumental	1	2
27-3011	Radio and Television Announcers	34017	Announcers, Radio and Television	27-3011.00	Radio and Television Announcers	1	1
27-3012	Public Address System and Other Announcers	34021	Announcers, Except Radio and Television	27-3012.00	Public Address System and Other Announcers	1	1

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27-3021	Broadcast News Analysts	34014	Broadcast News Analysts	27-3021.00	Broadcast News Analysts	1	1
27-3022	Reporters and Correspondents	34011	Reporters and Correspondents	27-3022.00	Reporters and Correspondents	1	1
27-3031	Public Relations Specialists	34008	Public Relations Specialists and Publicity Writers	27-3031.00	Public Relations Specialists	1	1
27-3041	Editors	34002D	Editors	27-3041.00	Editors	1	1
27-3042	Technical Writers	34005	Technical Writers	27-3042.00	Technical Writers	1	1
27-3043	Writers and Authors			27-3043.00	Writers and Authors	3	2
27-3043	Writers and Authors	34002B	Poets and Lyricists	27-3043.01	Poets and Lyricists	1	2
27-3043	Writers and Authors	34002C	Creative Writers	27-3043.02	Creative Writers	1	2
27-3043	Writers and Authors	34002J	Caption Writers	27-3043.03	Caption Writers	1	2
27-3043	Writers and Authors	34002L	Copy Writers	27-3043.04	Copy Writers	1	2
27-3091	Interpreters and Translators	39999A	Interpreters and Translators	27-3091.00	Interpreters and Translators	1	1
27-4011	Audio and Video Equipment Technicians	31508	Audio-Video Specialists	27-4011.00	Audio and Video Equipment Technicians	2	3
27-4012	Broadcast Technicians	34028B	Broadcast Technicians	27-4012.00	Broadcast Technicians	1	1
27-4013	Radio Operators	39008	Radio Operators	27-4013.00	Radio Operators	1	1
27-4014	Sound Engineering Technicians	22599A	Sound Engineering Technicians	27-4014.00	Sound Engineering Technicians	1	1
27-4021	Photographers			27-4021.00	Photographers	3	2
27-4021	Photographers	34023A	Professional Photographers	27-4021.01	Professional Photographers	1	2
27-4021	Photographers	34023B	Photographers, Scientific	27-4021.02	Photographers, Scientific	1	2

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27-4031	Camera Operators, Television, Video, and Motion Picture	34026	Camera Operators, Television and Motion Picture	27-4031.00	Camera Operators, Television, Video, and Motion Picture	1	1
27-4032	Film and Video Editors	34032	Film Editors	27-4032.00	Film and Video Editors	1	1
29-1011	Chiropractors	32113	Chiropractors	29-1011.00	Chiropractors	1	1
29-1021	Dentists, General	32105B	Dentists	29-1021.00	Dentists, General	1	1
29-1022	Oral and Maxillofacial Surgeons	32105G	Oral and Maxillofacial Surgeons	29-1022.00	Oral and Maxillofacial Surgeons	1	1
29-1023	Orthodontists	32105D	Orthodontists	29-1023.00	Orthodontists	1	1
29-1024	Prosthodontists	32105F	Prosthodontists	29-1024.00	Prosthodontists	1	1
29-1031	Dietitians and Nutritionists	32521	Dietitians and Nutritionists	29-1031.00	Dietitians and Nutritionists	1	1
29-1041	Optometrists	32108	Optometrists	29-1041.00	Optometrists	1	1
29-1051	Pharmacists	32517	Pharmacists	29-1051.00	Pharmacists	1	1
29-1061	Anesthesiologists	32102F	Anesthesiologists	29-1061.00	Anesthesiologists	1	1
29-1062	Family and General Practitioners	32102A	Doctors Of Medicine (MD)	29-1062.00	Family and General Practitioners	2	3
29-1063	Internists, General	32102A	Doctors Of Medicine (MD)	29-1063.00	Internists, General	2	3
29-1064	Obstetricians and Gynecologists	32102A	Doctors Of Medicine (MD)	29-1064.00	Obstetricians and Gynecologists	2	3
29-1065	Pediatricians, General	32102A	Doctors Of Medicine (MD)	29-1065.00	Pediatricians, General	2	3
29-1066	Psychiatrists	32102E	Psychiatrists	29-1066.00	Psychiatrists	1	1
29-1067	Surgeons	32102J	Surgeons	29-1067.00	Surgeons	1	1
29-1071	Physician Assistants	32511	Physician's Assistants	29-1071.00	Physician Assistants	1	1

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29-1081	Podiatrists	32111	Podiatrists	29-1081.00	Podiatrists	1	1
29-1111	Registered Nurses	32502	Registered Nurses	29-1111.00	Registered Nurses	1	1
29-1121	Audiologists	32314	Speech-Language Pathologists and Audiologists	29-1121.00	Audiologists	2	3
29-1122	Occupational Therapists	32305	Occupational Therapists	29-1122.00	Occupational Therapists	1	1
29-1123	Physical Therapists	32308	Physical Therapists	29-1123.00	Physical Therapists	1	1
29-1124	Radiation Therapists	32913	Radiation Therapists	29-1124.00	Radiation Therapists	1	1
29-1125	Recreational Therapists	32317	Recreational Therapists	29-1125.00	Recreational Therapists	1	1
29-1126	Respiratory Therapists	32302	Respiratory Therapists	29-1126.00	Respiratory Therapists	1	1
29-1127	Speech-Language Pathologists	32314	Speech-Language Pathologists and Audiologists	29-1127.00	Speech-Language Pathologists	2	3
29-1131	Veterinarians	32114B	Veterinarians	29-1131.00	Veterinarians	1	1
29-2011	Medical and Clinical Laboratory Technologists	32902	Medical and Clinical Laboratory Technologists	29-2011.00	Medical and Clinical Laboratory Technologists	1	1
29-2012	Medical and Clinical Laboratory Technicians	32905	Medical and Clinical Laboratory Technicians	29-2012.00	Medical and Clinical Laboratory Technicians	1	1
29-2021	Dental Hygienists	32908	Dental Hygienists	29-2021.00	Dental Hygienists	1	1
29-2031	Cardiovascular Technologists and Technicians	32925	Cardiology Technologists	29-2031.00	Cardiovascular Technologists and Technicians	1	1
29-2032	Diagnostic Medical Sonographers			29-2032.00	Diagnostic Medical Sonographers	3	4
29-2033	Nuclear Medicine Technologists	32914	Nuclear Medicine Technologists	29-2033.00	Nuclear Medicine Technologists	1	1
29-2034	Radiologic Technologists and Technicians			29-2034.00	Radiologic Technologists and Technicians	3	2

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29-2034	Radiologic Technologists and Technicians	32919	Radiologic Technologists	29-2034.01	Radiologic Technologists	1	2
29-2034	Radiologic Technologists and Technicians	32921	Radiologic Technicians	29-2034.02	Radiologic Technicians	1	2
29-2041	Emergency Medical Technicians and Paramedics	32508	Emergency Medical Technicians	29-2041.00	Emergency Medical Technicians and Paramedics	1	1
29-2051	Dietetic Technicians	32523	Dietetic Technicians	29-2051.00	Dietetic Technicians	1	1
29-2052	Pharmacy Technicians	32518	Pharmacy Technicians	29-2052.00	Pharmacy Technicians	1	1
29-2053	Psychiatric Technicians	32931	Psychiatric Technicians	29-2053.00	Psychiatric Technicians	1	1
29-2054	Respiratory Therapy Technicians			29-2054.00	Respiratory Therapy Technicians	3	4
29-2055	Surgical Technologists	32928	Surgical Technologists and Technicians	29-2055.00	Surgical Technologists	1	1
29-2056	Veterinary Technologists and Technicians			29-2056.00	Veterinary Technologists and Technicians	3	4
29-2061	Licensed Practical and Licensed Vocational Nurses	32505	Licensed Practical Nurses	29-2061.00	Licensed Practical and Licensed Vocational Nurses	1	1
29-2071	Medical Records and Health Information Technicians	32911	Medical Records Technicians	29-2071.00	Medical Records and Health Information Technicians	1	1
29-2081	Opticians, Dispensing	32514	Opticians, Dispensing and Measuring	29-2081.00	Opticians, Dispensing	1	1
29-2091	Orthotists and Prosthetists	32999A	Orthotists and Prosthetists	29-2091.00	Orthotists and Prosthetists	1	1
29-9011	Occupational Health and Safety Specialists	32996C	Occupational Health and Safety Specialists	29-9011.00	Occupational Health and Safety Specialists	1	1
29-9012	Occupational Health and Safety Technicians			29-9012.00	Occupational Health and Safety Technicians	3	4
29-9091	Athletic Trainers	34058B	Athletic Trainers	29-9091.00	Athletic Trainers	1	1
31-1011	Home Health Aides	66011	Home Health Aides	31-1011.00	Home Health Aides	1	1
31-1012	Nursing Aides, Orderlies, and Attendants	66008	Nursing Aides, Orderlies, and Attendants	31-1012.00	Nursing Aides, Orderlies, and Attendants	1	1

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31-1013	Psychiatric Aides	66014	Psychiatric Aides	31-1013.00	Psychiatric Aides	1	1
31-2011	Occupational Therapist Assistants	66021	Occupational Therapy Assistants and Aides	31-2011.00	Occupational Therapist Assistants	2	3
31-2012	Occupational Therapist Aides	66021	Occupational Therapy Assistants and Aides	31-2012.00	Occupational Therapist Aides	2	3
31-2021	Physical Therapist Assistants	66017	Physical and Corrective Therapy Assistants and Aides	31-2021.00	Physical Therapist Assistants	2	3
31-2022	Physical Therapist Aides	66017	Physical and Corrective Therapy Assistants and Aides	31-2022.00	Physical Therapist Aides	2	3
31-9011	Massage Therapists			31-9011.00	Massage Therapists	3	4
31-9091	Dental Assistants	66002	Dental Assistants	31-9091.00	Dental Assistants	1	1
31-9092	Medical Assistants	66005	Medical Assistants	31-9092.00	Medical Assistants	1	1
31-9093	Medical Equipment Preparers	66097	Health Equipment Service Workers	31-9093.00	Medical Equipment Preparers	1	1
31-9094	Medical Transcriptionists			31-9094.00	Medical Transcriptionists	3	4
31-9095	Pharmacy Aides			31-9095.00	Pharmacy Aides	3	4
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	79806	Veterinary Assistants	31-9096.00	Veterinary Assistants and Laboratory Animal Caretakers	1	1
33-1011	First-Line Supervisors/Managers of Correctional Officers			33-1011.00	First-Line Supervisors/Managers of Correctional Officers	3	4
33-1012	First-Line Supervisors/Managers of Police and Detectives	61005	Police and Detective Supervisors	33-1012.00	First-Line Supervisors/Managers of Police and Detectives	1	1
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers			33-1021.00	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	3	2

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33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	61002A	Municipal Fire Fighting and Prevention Supervisors	33-1021.01	Municipal Fire Fighting and Prevention Supervisors	1	2
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	61002B	Forest Fire Fighting and Prevention Supervisors	33-1021.02	Forest Fire Fighting and Prevention Supervisors	1	2
33-2011	Fire Fighters			33-2011.00	Fire Fighters	3	2
33-2011	Fire Fighters	63008A	Municipal Fire Fighters	33-2011.01	Municipal Fire Fighters	1	2
33-2011	Fire Fighters	63008B	Forest Fire Fighters	33-2011.02	Forest Fire Fighters	1	2
33-2021	Fire Inspectors and Investigators			33-2021.00	Fire Inspectors and Investigators	3	2
33-2021	Fire Inspectors and Investigators	63002A	Fire Inspectors	33-2021.01	Fire Inspectors	1	2
33-2021	Fire Inspectors and Investigators	63002B	Fire Investigators	33-2021.02	Fire Investigators	1	2
33-2022	Forest Fire Inspectors and Prevention Specialists	63005	Forest Fire Inspectors and Prevention Specialists	33-2022.00	Forest Fire Inspectors and Prevention Specialists	1	1
33-3011	Bailiffs	63023	Bailiffs	33-3011.00	Bailiffs	1	1
33-3012	Correctional Officers and Jailers	63017	Correction Officers and Jailers	33-3012.00	Correctional Officers and Jailers	1	1
33-3021	Detectives and Criminal Investigators			33-3021.00	Detectives and Criminal Investigators	3	2
33-3021	Detectives and Criminal Investigators	63011A	Police Detectives	33-3021.01	Police Detectives	1	2
33-3021	Detectives and Criminal Investigators	63011B	Police Identification and Records Officers	33-3021.02	Police Identification and Records Officers	1	2
33-3021	Detectives and Criminal Investigators	63028A	Criminal Investigators and Special Agents	33-3021.03	Criminal Investigators and Special Agents	1	2
33-3021	Detectives and Criminal Investigators	63028B	Child Support, Missing Persons, and Unemployment Insurance Fraud Investigators	33-3021.04	Child Support, Missing Persons, and Unemployment Insurance Fraud Investigators	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
33-3021	Detectives and Criminal Investigators	21911C	Immigration and Customs Inspectors	33-3021.05	Immigration and Customs Inspectors	1	2
33-3031	Fish and Game Wardens	63041	Fish and Game Wardens	33-3031.00	Fish and Game Wardens	1	1
33-3041	Parking Enforcement Workers	63021	Parking Enforcement Officers	33-3041.00	Parking Enforcement Workers	1	1
33-3051	Police and Sheriff's Patrol Officers			33-3051.00	Police and Sheriff's Patrol Officers	3	2
33-3051	Police and Sheriff's Patrol Officers	63014A	Police Patrol Officers	33-3051.01	Police Patrol Officers	1	2
33-3051	Police and Sheriff's Patrol Officers	63014B	Highway Patrol Pilots	33-3051.02	Highway Patrol Pilots	1	2
33-3051	Police and Sheriff's Patrol Officers	63032	Sheriffs and Deputy Sheriffs	33-3051.03	Sheriffs and Deputy Sheriffs	1	2
33-3052	Transit and Railroad Police	63038	Railroad and Transit Police and Special Agents	33-3052.00	Transit and Railroad Police	1	1
33-9011	Animal Control Workers	63099C	Animal Control Workers	33-9011.00	Animal Control Workers	1	1
33-9021	Private Detectives and Investigators	63035	Detectives and Investigators, Except Public	33-9021.00	Private Detectives and Investigators	1	1
33-9031	Gaming Surveillance Officers and Gaming Investigators			33-9031.00	Gaming Surveillance Officers and Gaming Investigators	3	4
33-9032	Security Guards	63047	Guards and Watch Guards	33-9032.00	Security Guards	1	1
33-9091	Crossing Guards	63044	Crossing Guards	33-9091.00	Crossing Guards	1	1
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	63099B	Recreational Area Guards and Patrollers	33-9092.00	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1	1
35-1011	Chefs and Head Cooks	61099A	Chefs and Head Cooks	35-1011.00	Chefs and Head Cooks	1	1
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	61099B	First-Line Supervisors/Managers of Food Preparation and Serving Workers	35-1012.00	First-Line Supervisors/Managers of Food Preparation and Serving Workers	1	1
35-2011	Cooks, Fast Food	65032	Cooks, Specialty Fast Food	35-2011.00	Cooks, Fast Food	1	1



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<b>SOC  CODE</b>	<b>SOC TITLE</b>	<b>O*NET 98  (OU)  CODE</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0  (O*NET-SOC)  CODE</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA AVAIL.</b>	<b>link</b>
35-2012	Cooks, Institution and Cafeteria	65028	Cooks, Institution or Cafeteria	35-2012.00	Cooks, Institution and Cafeteria	1	1
35-2013	Cooks, Private Household			35-2013.00	Cooks, Private Household	3	4
35-2014	Cooks, Restaurant	65026	Cooks, Restaurant	35-2014.00	Cooks, Restaurant	1	1
35-2015	Cooks, Short Order	65035	Cooks, Short Order	35-2015.00	Cooks, Short Order	1	1
35-2021	Food Preparation Workers	65038A	Food Preparation Workers	35-2021.00	Food Preparation Workers	1	1
35-3011	Bartenders	65005	Bartenders	35-3011.00	Bartenders	1	1
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	65041	Combined Food Preparation and Service Workers	35-3021.00	Combined Food Preparation and Serving Workers, Including Fast Food	1	1
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	65017	Counter Attendants- Lunchroom, Coffee Shop, or Cafeteria	35-3022.00	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1	1
35-3031	Waiters and Waitresses	65008A	Waiters/Waitresses	35-3031.00	Waiters and Waitresses	1	1
35-3041	Food Servers, Nonrestaurant	65011	Food Servers, Outside	35-3041.00	Food Servers, Nonrestaurant	1	1
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	65014	Dining Room and Cafeteria Attendants, and Bartender Helpers	35-9011.00	Dining Room and Cafeteria Attendants and Bartender Helpers	1	1
35-9021	Dishwashers	65038B	Kitchen Helpers	35-9021.00	Dishwashers	1	1
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	65002	Hosts and Hostesses- Restaurant, Lounge or Coffee Shop	35-9031.00	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1	1
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers			37-1011.00	First-Line Supervisors/Managers of  Housekeeping and Janitorial Workers	3	2
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	61008	Housekeeping Supervisors	37-1011.01	Housekeeping Supervisors	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	61099D	Janitorial Supervisors	37-1011.02	Janitorial Supervisors	1	2
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers			37-1012.00	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	3	2
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	15032	Lawn Service Managers	37-1012.01	Lawn Service Managers	1	2
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	72002D	First-Line Supervisors and Manager/Supervisors - Landscaping Workers	37-1012.02	First-Line Supervisors and Manager/Supervisors - Landscaping Workers	1	2
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	37-2011.00	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1	1
37-2012	Maids and Housekeeping Cleaners	67002	Maids and Housekeeping Cleaners	37-2012.00	Maids and Housekeeping Cleaners	1	1
37-2021	Pest Control Workers	67008	Pest Controllers and Assistants	37-2021.00	Pest Control Workers	1	1
37-3011	Landscaping and Groundskeeping Workers	79041	Laborers, Landscaping and Groundskeeping	37-3011.00	Landscaping and Groundskeeping Workers	1	1
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	79036	Sprayers/Applicators	37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation	1	1
37-3013	Tree Trimmers and Pruners	79033	Pruners	37-3013.00	Tree Trimmers and Pruners	1	1
39-1011	Gaming Supervisors	19999E	Gambling Establishment Managers	39-1011.00	Gaming Supervisors	2	3
39-1012	Slot Key Persons			39-1012.00	Slot Key Persons	3	4

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
39-1021	First-Line Supervisors/Managers of Personal Service Workers	61099C	First-Line Supervisors/Managers of Hospitality	39-1021.00	First-Line Supervisors/Managers of Personal Service Workers	1	1
39-2011	Animal Trainers	79016	Animal Trainers	39-2011.00	Animal Trainers	1	1
39-2021	Nonfarm Animal Caretakers	79017A	Animal Caretakers, except Farm	39-2021.00	Nonfarm Animal Caretakers	1	1
39-3011	Gaming Dealers	68014B	Gambling Dealers and Attendants	39-3011.00	Gaming Dealers	2	3
39-3012	Gaming and Sports Book Writers and Runners	68014B	Gambling Dealers and Attendants	39-3012.00	Gaming and Sports Book Writers and Runners	2	3
39-3021	Motion Picture Projectionists	92905	Motion Picture Projectionists	39-3021.00	Motion Picture Projectionists	1	1
39-3031	Ushers, Lobby Attendants, and Ticket Takers	68021	Ushers, Lobby Attendants, and Ticket Takers	39-3031.00	Ushers, Lobby Attendants, and Ticket Takers	1	1
39-3091	Amusement and Recreation Attendants	68014A	Amusement and Recreation Attendants	39-3091.00	Amusement and Recreation Attendants	1	1
39-3092	Costume Attendants	68032B	Costumers and Wardrobe Specialists	39-3092.00	Costume Attendants	1	1
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	69999B	Personal Attendants	39-3093.00	Locker Room, Coatroom, and Dressing Room Attendants	1	1
39-4011	Embalmers	39014	Embalmers	39-4011.00	Embalmers	1	1
39-4021	Funeral Attendants	68041	Funeral Attendants	39-4021.00	Funeral Attendants	1	1
39-5011	Barbers	68002	Barbers	39-5011.00	Barbers	1	1
39-5012	Hairdressers, Hairstylists, and Cosmetologists	68005A	Hairdressers, Hairstylists, and Cosmetologists	39-5012.00	Hairdressers, Hairstylists, and Cosmetologists	1	1
39-5091	Makeup Artists, Theatrical and Performance	68005B	Make-Up Artists, Theatrical and Performance	39-5091.00	Makeup Artists, Theatrical and Performance	1	1
39-5092	Manicurists and Pedicurists	68008	Manicurists	39-5092.00	Manicurists and Pedicurists	1	1
39-5093	Shampooers			39-5093.00	Shampooers	3	4
39-5094	Skin Care Specialists			39-5094.00	Skin Care Specialists	3	4

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
39-6011	Baggage Porters and Bellhops	68023	Baggage Porters and Bellhops	39-6011.00	Baggage Porters and Bellhops	1	1
39-6012	Concierges			39-6012.00	Concierges	3	4
39-6021	Tour Guides and Escorts	68017B	Tour Guides and Escorts	39-6021.00	Tour Guides and Escorts	1	1
39-6022	Travel Guides	68017A	Travel Guides	39-6022.00	Travel Guides	1	1
39-6031	Flight Attendants	68026	Flight Attendants	39-6031.00	Flight Attendants	1	1
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	68028	Transportation Attendants, Except Flight Attendants and Baggage Porters	39-6032.00	Transportation Attendants, Except Flight Attendants and Baggage Porters	1	1
39-9011	Child Care Workers	68038	Child Care Workers	39-9011.00	Child Care Workers	1	1
39-9021	Personal and Home Care Aides	68035	Personal and Home Care Aides	39-9021.00	Personal and Home Care Aides	1	1
39-9031	Fitness Trainers and Aerobics Instructors	31321	Instructors and Coaches, Sports and Physical Training	39-9031.00	Fitness Trainers and Aerobics Instructors	1	1
39-9032	Recreation Workers	27311	Recreation Workers	39-9032.00	Recreation Workers	1	1
39-9041	Residential Advisors	27307	Residential Counselors	39-9041.00	Residential Advisors	1	1
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	41002	First Line Supervisors and Manager/Supervisors- Sales and Related Workers	41-1011.00	First-Line Supervisors/Managers of Retail Sales Workers	2	3
41-1012	First-Line Supervisors/Managers of Non- Retail Sales Workers	41002	First Line Supervisors and Manager/Supervisors- Sales and Related Workers	41-1012.00	First-Line Supervisors/Managers of Non-Retail Sales Workers	2	3
41-2011	Cashiers	49023A	Cashiers, General	41-2011.00	Cashiers	1	1
41-2012	Gaming Change Persons and Booth Cashiers			41-2012.00	Gaming Change Persons and Booth Cashiers	3	4
41-2021	Counter and Rental Clerks	49017	Counter and Rental Clerks	41-2021.00	Counter and Rental Clerks	1	1

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41-2022	Parts Salespersons	49014	Salespersons, Parts	41-2022.00	Parts Salespersons	1	1
41-2031	Retail Salespersons	49011	Salespersons, Retail	41-2031.00	Retail Salespersons	1	1
41-3011	Advertising Sales Agents	43023B	Sales Agents, Advertising	41-3011.00	Advertising Sales Agents	1	1
41-3021	Insurance Sales Agents	43002	Sales Agents and Placers, Insurance	41-3021.00	Insurance Sales Agents	1	1
41-3031	Securities, Commodities, and Financial Services Sales Agents			41-3031.00	Securities, Commodities, and Financial Services Sales Agents	3	2
41-3031	Securities, Commodities, and Financial Services Sales Agents	43014A	Sales Agents, Securities and Commodities	41-3031.01	Sales Agents, Securities and Commodities	1	2
41-3031	Securities, Commodities, and Financial Services Sales Agents	43014B	Sales Agents, Financial Services	41-3031.02	Sales Agents, Financial Services	1	2
41-3041	Travel Agents	43021	Travel Agents	41-3041.00	Travel Agents	1	1
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products			41-4011.00	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005A	Sales Representatives, Agricultural	41-4011.01	Sales Representatives, Agricultural	1	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005B	Sales Representatives, Chemical and Pharmaceutical	41-4011.02	Sales Representatives, Chemical and Pharmaceutical	1	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005C	Sales Representatives, Electrical/Electronic	41-4011.03	Sales Representatives, Electrical/Electronic	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005D	Sales Representatives, Mechanical Equipment and Supplies	41-4011.04	Sales Representatives, Mechanical Equipment  and Supplies	1	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005F	Sales Representatives,  Medical	41-4011.05	Sales Representatives, Medical	1	2
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	49005G	Sales Representatives,  Instruments	41-4011.06	Sales Representatives, Instruments	1	2
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	49008	Sales Representatives, Except Retail and Scientific and Related Products and Services	41-4012.00	Sales Representatives, Wholesale and  Manufacturing, Except Technical and Scientific Products	1	1
41-9011	Demonstrators and Product Promoters	49032A	Demonstrators and Promoters	41-9011.00	Demonstrators and Product Promoters	1	1
41-9012	Models	49032B	Models	41-9012.00	Models	1	1
41-9021	Real Estate Brokers			41-9021.00	Real Estate Brokers	3	4
41-9022	Real Estate Sales Agents	43008	Sales Agents, Real Estate	41-9022.00	Real Estate Sales Agents	1	1
41-9031	Sales Engineers	49002	Sales Engineers	41-9031.00	Sales Engineers	1	1
41-9041	Telemarketers	49026	Telemarketers, Door-To-Door Sales Workers, News and Street Vendors, and Other Related Workers	41-9041.00	Telemarketers	2	3
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	49026	Telemarketers, Door-To-Door Sales Workers, News and Street Vendors, and Other Related Workers	41-9091.00	Door-To-Door Sales Workers, News and Street  Vendors, and Related Workers	2	3

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers			43-1011.00	First-Line Supervisors/Managers of Office and Administrative Support Workers	3	2
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	51002A	First-Line Supervisors, Customer Service	43-1011.01	First-Line Supervisors, Customer Service	1	2
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	51002B	First-Line Supervisors, Administrative Support	43-1011.02	First-Line Supervisors, Administrative Support	1	2
43-2011	Switchboard Operators, Including Answering Service	57102	Switchboard Operators	43-2011.00	Switchboard Operators, Including Answering Service	1	1
43-2021	Telephone Operators			43-2021.00	Telephone Operators	3	2
43-2021	Telephone Operators	57105	Directory Assistance Operators	43-2021.01	Directory Assistance Operators	1	2
43-2021	Telephone Operators	57108	Central Office Operators	43-2021.02	Central Office Operators	1	2
43-3011	Bill and Account Collectors	53508	Bill and Account Collectors	43-3011.00	Bill and Account Collectors	1	1
43-3021	Billing and Posting Clerks and Machine Operators			43-3021.00	Billing and Posting Clerks and Machine Operators	3	2
43-3021	Billing and Posting Clerks and Machine Operators	53126	Statement Clerks	43-3021.01	Statement Clerks	1	2
43-3021	Billing and Posting Clerks and Machine Operators	55344	Billing, Cost, and Rate Clerks	43-3021.02	Billing, Cost, and Rate Clerks	1	2
43-3021	Billing and Posting Clerks and Machine Operators	56002	Billing, Posting, and Calculating Machine Operators	43-3021.03	Billing, Posting, and Calculating Machine Operators	1	2
43-3031	Bookkeeping, Accounting, and Auditing Clerks	55338A	Bookkeeping and Accounting Clerks	43-3031.00	Bookkeeping, Accounting, and Auditing Clerks	1	1
43-3041	Gaming Cage Workers			43-3041.00	Gaming Cage Workers	3	4
43-3051	Payroll and Timekeeping Clerks	55341	Payroll and Timekeeping Clerks	43-3051.00	Payroll and Timekeeping Clerks	1	1

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<b>SOC  CODE</b>	<b>SOC TITLE</b>	<b>O*NET 98  (OU)  CODE</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0  (O*NET-SOC)  CODE</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA AVAIL.</b>	<b>link</b>
43-3061	Procurement Clerks	55326	Procurement Clerks	43-3061.00	Procurement Clerks	1	1
43-3071	Tellers	53102	Tellers	43-3071.00	Tellers	1	1
43-4011	Brokerage Clerks	53128	Brokerage Clerks	43-4011.00	Brokerage Clerks	1	1
43-4021	Correspondence Clerks	55317	Correspondence Clerks	43-4021.00	Correspondence Clerks	1	1
43-4031	Court, Municipal, and License Clerks			43-4031.00	Court, Municipal, and License Clerks	3	2
43-4031	Court, Municipal, and License Clerks	53702	Court Clerks	43-4031.01	Court Clerks	1	2
43-4031	Court, Municipal, and License Clerks	53705	Municipal Clerks	43-4031.02	Municipal Clerks	1	2
43-4031	Court, Municipal, and License Clerks	53708	License Clerks	43-4031.03	License Clerks	1	2
43-4041	Credit Authorizers, Checkers, and Clerks			43-4041.00	Credit Authorizers, Checkers, and Clerks	3	2
43-4041	Credit Authorizers, Checkers, and Clerks	53114	Credit Authorizers	43-4041.01	Credit Authorizers	1	2
43-4041	Credit Authorizers, Checkers, and Clerks	53117	Credit Checkers	43-4041.02	Credit Checkers	1	2
43-4051	Customer Service Representatives			43-4051.00	Customer Service Representatives	3	2
43-4051	Customer Service Representatives	53123	Adjustment Clerks	43-4051.01	Adjustment Clerks	1	2
43-4051	Customer Service Representatives	55335	Customer Service Representatives, Utilities	43-4051.02	Customer Service Representatives, Utilities	1	2
43-4061	Eligibility Interviewers, Government Programs			43-4061.00	Eligibility Interviewers, Government Programs	3	2
43-4061	Eligibility Interviewers, Government Programs	21502	Claims Takers, Unemployment Benefits	43-4061.01	Claims Takers, Unemployment Benefits	1	2
43-4061	Eligibility Interviewers, Government Programs	53502	Welfare Eligibility Workers and Interviewers	43-4061.02	Welfare Eligibility Workers and Interviewers	1	2
43-4071	File Clerks	55321	File Clerks	43-4071.00	File Clerks	1	1
43-4081	Hotel, Motel, and Resort Desk Clerks	53808	Hotel Desk Clerks	43-4081.00	Hotel, Motel, and Resort Desk Clerks	1	1



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43-4111	Interviewers, Except Eligibility and Loan	55332	Interviewing Clerks, Except Personnel and Social Welfare	43-4111.00	Interviewers, Except Eligibility and Loan	1	1
43-4121	Library Assistants, Clerical	53902	Library Assistants and Bookmobile Drivers	43-4121.00	Library Assistants, Clerical	1	1
43-4131	Loan Interviewers and Clerks	53121	Loan and Credit Clerks	43-4131.00	Loan Interviewers and Clerks	1	1
43-4141	New Accounts Clerks	53105	New Accounts Clerks	43-4141.00	New Accounts Clerks	1	1
43-4151	Order Clerks	55323	Order Clerks- Materials, Merchandise, and Service	43-4151.00	Order Clerks	1	1
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	55314	Personnel Clerks, Except Payroll and Timekeeping	43-4161.00	Human Resources Assistants, Except Payroll and Timekeeping	1	1
43-4171	Receptionists and Information Clerks	55305	Receptionists and Information Clerks	43-4171.00	Receptionists and Information Clerks	1	1
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks			43-4181.00	Reservation and Transportation Ticket Agents and Travel Clerks	3	2
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	53802	Travel Clerks	43-4181.01	Travel Clerks	1	2
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	53805	Reservation and Transportation Ticket Agents	43-4181.02	Reservation and Transportation Ticket Agents	1	2
43-5011	Cargo and Freight Agents	58011	Transportation Agents	43-5011.00	Cargo and Freight Agents	1	1
43-5021	Couriers and Messengers	57311A	Couriers and Messengers	43-5021.00	Couriers and Messengers	1	1
43-5031	Police, Fire, and Ambulance Dispatchers	58002	Dispatchers- Police, Fire, and Ambulance	43-5031.00	Police, Fire, and Ambulance Dispatchers	1	1
43-5032	Dispatchers, Except Police, Fire, and Ambulance	58005	Dispatchers- Except Police, Fire, and Ambulance	43-5032.00	Dispatchers, Except Police, Fire, and Ambulance	1	1
43-5041	Meter Readers, Utilities	58014	Meter Readers, Utilities	43-5041.00	Meter Readers, Utilities	1	1
43-5051	Postal Service Clerks	57308	Postal Service Clerks	43-5051.00	Postal Service Clerks	1	1

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43-5052	Postal Service Mail Carriers	57305	Postal Mail Carriers	43-5052.00	Postal Service Mail Carriers	1	1
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators			43-5053.00	Postal Service Mail Sorters, Processors, and Processing Machine Operators	3	4
43-5061	Production, Planning, and Expediting Clerks	58008	Production, Planning, and Expediting Clerks	43-5061.00	Production, Planning, and Expediting Clerks	1	1
43-5071	Shipping, Receiving, and Traffic Clerks	58028	Shipping, Receiving, and Traffic Clerks	43-5071.00	Shipping, Receiving, and Traffic Clerks	1	1
43-5081	Stock Clerks and Order Fillers			43-5081.00	Stock Clerks and Order Fillers	3	2
43-5081	Stock Clerks and Order Fillers	49021	Stock Clerks, Sales Floor	43-5081.01	Stock Clerks, Sales Floor	1	2
43-5081	Stock Clerks and Order Fillers	58021	Marking Clerks	43-5081.02	Marking Clerks	1	2
43-5081	Stock Clerks and Order Fillers	58023	Stock Clerks- Stockroom, Warehouse, or Storage Yard	43-5081.03	Stock Clerks- Stockroom, Warehouse, or Storage Yard	1	2
43-5081	Stock Clerks and Order Fillers	58026	Order Fillers, Wholesale and Retail Sales	43-5081.04	Order Fillers, Wholesale and Retail Sales	1	2
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	58017	Weighers, Measurers, Checkers, and Samplers- Recordkeeping	43-5111.00	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1	1
43-6011	Executive Secretaries and Administrative Assistants	21999C	Executive Secretaries and Administrative Assistants	43-6011.00	Executive Secretaries and Administrative Assistants	1	1
43-6012	Legal Secretaries	55102	Legal Secretaries	43-6012.00	Legal Secretaries	1	1
43-6013	Medical Secretaries	55105	Medical Secretaries	43-6013.00	Medical Secretaries	1	1
43-6014	Secretaries, Except Legal, Medical, and Executive	55108	Secretaries, Except Legal and Medical	43-6014.00	Secretaries, Except Legal, Medical, and Executive	1	1
43-9011	Computer Operators	56011	Computer Operators, Except Peripheral Equipment	43-9011.00	Computer Operators	1	1
43-9021	Data Entry Keyers	56017	Data Entry Keyers, Except Composing	43-9021.00	Data Entry Keyers	1	1
43-9022	Word Processors and Typists	55307	Typists, Including Word Processing	43-9022.00	Word Processors and Typists	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
43-9031	Desktop Publishers	89707	Electronic Pagination System Operators	43-9031.00	Desktop Publishers	1	1
43-9041	Insurance Claims and Policy Processing Clerks			43-9041.00	Insurance Claims and Policy Processing Clerks	3	2
43-9041	Insurance Claims and Policy Processing Clerks	53311	Insurance Claims Clerks	43-9041.01	Insurance Claims Clerks	1	2
43-9041	Insurance Claims and Policy Processing Clerks	53314	Insurance Policy Processing Clerks	43-9041.02	Insurance Policy Processing Clerks	1	2
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service			43-9051.00	Mail Clerks and Mail Machine Operators, Except Postal Service	3	2
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	56008	Mail Machine Operators, Preparation and Handling	43-9051.01	Mail Machine Operators, Preparation and Handling	1	2
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	57302	Mail Clerks, Except Mail Machine Operators and Postal Service	43-9051.02	Mail Clerks, Except Mail Machine Operators and Postal Service	1	2
43-9061	Office Clerks, General	55347	General Office Clerks	43-9061.00	Office Clerks, General	1	1
43-9071	Office Machine Operators, Except Computer			43-9071.00	Office Machine Operators, Except Computer	3	2
43-9071	Office Machine Operators, Except Computer	56005	Duplicating Machine Operators	43-9071.01	Duplicating Machine Operators	1	2
43-9081	Proofreaders and Copy Markers	53911	Proofreaders and Copy Markers	43-9081.00	Proofreaders and Copy Markers	1	1
43-9111	Statistical Assistants	55328A	Statistical Data Clerks	43-9111.00	Statistical Assistants	1	1
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers			45-1011.00	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	3	2
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002A	First-Line Supervisors and Manager/Supervisors - Agricultural Crop Workers	45-1011.01	First-Line Supervisors and Manager/Supervisors - Agricultural Crop Workers	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002B	First-Line Supervisors and Manager/Supervisors - Animal Husbandry Workers	45-1011.02	First-Line Supervisors and Manager/Supervisors - Animal Husbandry Workers	1	2
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002C	First-Line Supervisors and Manager/Supervisors - Animal Care Workers, Except Livestock	45-1011.03	First-Line Supervisors and Manager/Supervisors - Animal Care Workers, Except Livestock	1	2
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002E	First-Line Supervisors and Manager/Supervisors - Horticultural Workers	45-1011.04	First-Line Supervisors and Manager/Supervisors - Horticultural Workers	1	2
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002F	First-Line Supervisors and Manager/Supervisors - Logging Workers	45-1011.05	First-Line Supervisors and Manager/Supervisors - Logging Workers	1	2
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	72002G	First-Line Supervisors and Manager/Supervisors - Fishery Workers	45-1011.06	First-Line Supervisors and Manager/Supervisors - Fishery Workers	1	2
45-2011	Agricultural Inspectors	21911R	Agricultural Inspectors	45-2011.00	Agricultural Inspectors	1	1
45-2021	Animal Breeders	79015	Animal Breeders	45-2021.00	Animal Breeders	1	1
45-2031	Farm Labor Contractors			45-2031.00	Farm Labor Contractors	3	4
45-2041	Graders and Sorters, Agricultural Products	79011	Graders and Sorters, Agricultural Products	45-2041.00	Graders and Sorters, Agricultural Products	1	1
45-2091	Agricultural Equipment Operators	79021	Farm Equipment Operators	45-2091.00	Agricultural Equipment Operators	1	1
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse			45-2092.00	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	3	2
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	79005	Nursery Workers	45-2092.01	Nursery Workers	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	79855	General Farmworkers	45-2092.02	General Farmworkers	1	2
45-2093	Farmworkers, Farm and Ranch Animals	79858	Farmworkers, Farm and Ranch Animals	45-2093.00	Farmworkers, Farm and Ranch Animals	1	1
45-3011	Fishers and Related Fishing Workers	79999E	Commercial Fishery Workers	45-3011.00	Fishers and Related Fishing Workers	1	1
45-3021	Hunters and Trappers	79999F	Hunters and Trappers	45-3021.00	Hunters and Trappers	1	1
45-4011	Forest and Conservation Workers	79002A	Forest and Conservation Workers	45-4011.00	Forest and Conservation Workers	1	1
45-4021	Fallers	73002	Fallers and Buckers	45-4021.00	Fallers	1	1
45-4022	Logging Equipment Operators			45-4022.00	Logging Equipment Operators	3	2
45-4022	Logging Equipment Operators	73011	Logging Tractor Operators	45-4022.01	Logging Tractor Operators	1	2
45-4023	Log Graders and Scalers	79008	Log Graders and Scalers	45-4023.00	Log Graders and Scalers	1	1
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers			47-1011.00	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	3	2
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	81005A	First-Line Supervisors and Manager/Supervisors-Construction Trades Workers	47-1011.01	First-Line Supervisors and Manager/Supervisors-Construction Trades Workers	1	2
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	81005B	First-Line Supervisors and Manager/Supervisors-Extractive Workers	47-1011.02	First-Line Supervisors and Manager/Supervisors-Extractive Workers	1	2
47-2011	Boilermakers	89135	Boilermakers	47-2011.00	Boilermakers	1	1
47-2021	Brickmasons and Blockmasons	87302	Brick Masons	47-2021.00	Brickmasons and Blockmasons	1	1
47-2022	Stonemasons	87305B	Stone Masons	47-2022.00	Stonemasons	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
47-2031	Carpenters			47-2031.00	Carpenters	3	2
47-2031	Carpenters	87102A	Construction Carpenters	47-2031.01	Construction Carpenters	1	2
47-2031	Carpenters	87102B	Rough Carpenters	47-2031.02	Rough Carpenters	1	2
47-2031	Carpenters	87102D	Carpenter Assemblers and Repairers	47-2031.03	Carpenter Assemblers and Repairers	1	2
47-2031	Carpenters	87102F	Ship Carpenters and Joiners	47-2031.04	Ship Carpenters and Joiners	1	2
47-2031	Carpenters	87102E	Boat Builders and Shipwrights	47-2031.05	Boat Builders and Shipwrights	1	2
47-2031	Carpenters	87121	Brattice Builders	47-2031.06	Brattice Builders	1	2
47-2041	Carpet Installers	87602	Carpet Installers	47-2041.00	Carpet Installers	1	1
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	87605	Floor Layers, Except Carpet, Wood, and Hard Tiles	47-2042.00	Floor Layers, Except Carpet, Wood, and Hard Tiles	1	1
47-2043	Floor Sanders and Finishers	87608	Floor Sanding Machine Operators	47-2043.00	Floor Sanders and Finishers	1	1
47-2044	Tile and Marble Setters	87308	Hard Tile Setters	47-2044.00	Tile and Marble Setters	1	1
47-2051	Cement Masons and Concrete Finishers	87311	Concrete and Terrazzo Finishers	47-2051.00	Cement Masons and Concrete Finishers	2	3
47-2053	Terrazzo Workers and Finishers	87311	Concrete and Terrazzo Finishers	47-2053.00	Terrazzo Workers and Finishers	2	3
47-2061	Construction Laborers	87899D	Construction Workers, Except Trade	47-2061.00	Construction Laborers	1	1
47-2071	Paving, Surfacing, and Tamping Equipment Operators	87708	Paving, Surfacing, and Tamping Equipment Operators	47-2071.00	Paving, Surfacing, and Tamping Equipment Operators	1	1
47-2072	Pile-Driver Operators	87705	Pile Driving Operators	47-2072.00	Pile-Driver Operators	1	1
47-2073	Operating Engineers and Other Construction Equipment Operators			47-2073.00	Operating Engineers and Other Construction Equipment Operators	3	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
47-2073	Operating Engineers and Other Construction Equipment Operators	97938	Grader, Bulldozer, and Scraper Operators	47-2073.01	Grader, Bulldozer, and Scraper Operators	1	2
47-2073	Operating Engineers and Other Construction Equipment Operators	97956	Operating Engineers	47-2073.02	Operating Engineers	1	2
47-2081	Drywall and Ceiling Tile Installers			47-2081.00	Drywall and Ceiling Tile Installers	3	2
47-2081	Drywall and Ceiling Tile Installers	87105	Ceiling Tile Installers and Acoustical Carpenters	47-2081.01	Ceiling Tile Installers	1	2
47-2081	Drywall and Ceiling Tile Installers	87108	Drywall Installers	47-2081.02	Drywall Installers	1	2
47-2082	Tapers	87111	Tapers	47-2082.00	Tapers	1	1
47-2111	Electricians	87202A	Electricians	47-2111.00	Electricians	1	1
47-2121	Glaziers	87811	Glaziers	47-2121.00	Glaziers	1	1
47-2131	Insulation Workers, Floor, Ceiling, and Wall	87802	Insulation Workers	47-2131.00	Insulation Workers, Floor, Ceiling, and Wall	2	3
47-2132	Insulation Workers, Mechanical	87802	Insulation Workers	47-2132.00	Insulation Workers, Mechanical	2	3
47-2141	Painters, Construction and Maintenance	87402A	Painters, Construction and Maintenance	47-2141.00	Painters, Construction and Maintenance	1	1
47-2142	Paperhangers	87402B	Paperhangers	47-2142.00	Paperhangers	1	1
47-2151	Pipelayers	87508	Pipelayers	47-2151.00	Pipelayers	1	1
47-2152	Plumbers, Pipefitters, and Steamfitters			47-2152.00	Plumbers, Pipefitters, and Steamfitters	3	2
47-2152	Plumbers, Pipefitters, and Steamfitters	87502A	Pipe Fitters	47-2152.01	Pipe Fitters	1	2
47-2152	Plumbers, Pipefitters, and Steamfitters	87502B	Plumbers	47-2152.02	Plumbers	1	2
47-2152	Plumbers, Pipefitters, and Steamfitters	87505	Pipelaying Fitters	47-2152.03	Pipelaying Fitters	1	2
47-2161	Plasterers and Stucco Masons	87317	Plasterers and Stucco Masons	47-2161.00	Plasterers and Stucco Masons	1	1

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
47-2171	Reinforcing Iron and Rebar Workers	87314	Reinforcing Metal Workers	47-2171.00	Reinforcing Iron and Rebar Workers	1	1
47-2181	Roofers	87808	Roofers	47-2181.00	Roofers	1	1
47-2211	Sheet Metal Workers	89132	Sheet Metal Workers	47-2211.00	Sheet Metal Workers	1	1
47-2221	Structural Iron and Steel Workers	87814	Structural Metal Workers	47-2221.00	Structural Iron and Steel Workers	1	1
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	98311	Helpers- Brick and Stone Masons, and Hard Tile Setters	47-3011.00	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	1	1
47-3012	Helpers--Carpenters	98312	Helpers- Carpenters and Related Workers	47-3012.00	Helpers--Carpenters	1	1
47-3013	Helpers--Electricians	98313	Helpers- Electricians and Powerline Transmission Installers	47-3013.00	Helpers--Electricians	1	1
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	98314	Helpers- Painters, Paperhangers, Plasterers, and Stucco Masons	47-3014.00	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	1	1
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	98315	Helpers- Plumbers, Pipefitters, and Steamfitters	47-3015.00	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1	1
47-3016	Helpers--Roofers			47-3016.00	Helpers--Roofers	3	4
47-4011	Construction and Building Inspectors	21908A	Construction and Building Inspectors	47-4011.00	Construction and Building Inspectors	1	1
47-4021	Elevator Installers and Repairers	85932	Elevator Installers and Repairers	47-4021.00	Elevator Installers and Repairers	1	1
47-4031	Fence Erectors	87817	Fence Erectors	47-4031.00	Fence Erectors	1	1
47-4041	Hazardous Materials Removal Workers			47-4041.00	Hazardous Materials Removal Workers	3	2
47-4041	Hazardous Materials Removal Workers	97989B	Irradiated-Fuel Handlers	47-4041.01	Irradiated-Fuel Handlers	1	2
47-4051	Highway Maintenance Workers	87711	Highway Maintenance Workers	47-4051.00	Highway Maintenance Workers	1	1



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47-4061	Rail-Track Laying and Maintenance Equipment Operators	87714A	Rail-Track Laying and Maintenance Equipment Operators	47-4061.00	Rail-Track Laying and Maintenance Equipment Operators	1	1
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	87511	Septic Tank Servicers and Sewer Pipe Cleaners	47-4071.00	Septic Tank Servicers and Sewer Pipe Cleaners	1	1
47-4091	Segmental Pavers			47-4091.00	Segmental Pavers	3	4
47-5011	Derrick Operators, Oil and Gas	87914	Derrick Operators, Oil and Gas Extraction	47-5011.00	Derrick Operators, Oil and Gas	1	1
47-5012	Rotary Drill Operators, Oil and Gas	87911	Rotary Drill Operators, Oil and Gas Extraction	47-5012.00	Rotary Drill Operators, Oil and Gas	1	1
47-5013	Service Unit Operators, Oil, Gas, and Mining	87917	Oil and Gas Well-Sounding-Device and Fishing-Tool Operators	47-5013.00	Service Unit Operators, Oil, Gas, and Mining	1	1
47-5021	Earth Drillers, Except Oil and Gas			47-5021.00	Earth Drillers, Except Oil and Gas	3	2
47-5021	Earth Drillers, Except Oil and Gas	87902A	Construction Drillers	47-5021.01	Construction Drillers	1	2
47-5021	Earth Drillers, Except Oil and Gas	87902B	Well and Core Drill Operators	47-5021.02	Well and Core Drill Operators	1	2
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	87905	Blasters and Explosives Workers	47-5031.00	Explosives Workers, Ordnance Handling Experts, and Blasters	1	1
47-5041	Continuous Mining Machine Operators	87941	Continuous Mining Machine Operators	47-5041.00	Continuous Mining Machine Operators	1	1
47-5042	Mine Cutting and Channeling Machine Operators	87943	Mine Cutting and Channeling Machine Operators	47-5042.00	Mine Cutting and Channeling Machine Operators	1	1
47-5051	Rock Splitters, Quarry	87908	Rock Splitters, Quarry	47-5051.00	Rock Splitters, Quarry	1	1
47-5061	Roof Bolters, Mining	87923	Roof Bolters	47-5061.00	Roof Bolters, Mining	1	1
47-5071	Roustabouts, Oil and Gas	87921	Roustabouts	47-5071.00	Roustabouts, Oil and Gas	1	1
47-5081	Helpers--Extraction Workers	98323	Helpers- Extractive Workers	47-5081.00	Helpers--Extraction Workers	1	1

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49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	81002	First-Line Supervisors and Manager/Supervisors-Mechanics, Installers, and Repairers	49-1011.00	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	1	1
49-2011	Computer, Automated Teller, and Office Machine Repairers			49-2011.00	Computer, Automated Teller, and Office Machine Repairers	3	2
49-2011	Computer, Automated Teller, and Office Machine Repairers	63099D	Automatic Teller Machine Servicers	49-2011.01	Automatic Teller Machine Servicers	1	2
49-2011	Computer, Automated Teller, and Office Machine Repairers	85705	Data Processing Equipment Repairers	49-2011.02	Data Processing Equipment Repairers	1	2
49-2011	Computer, Automated Teller, and Office Machine Repairers	85926	Office Machine and Cash Register Servicers	49-2011.03	Office Machine and Cash Register Servicers	1	2
49-2021	Radio Mechanics	85514	Radio Mechanics	49-2021.00	Radio Mechanics	1	1
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers			49-2022.00	Telecommunications Equipment Installers and Repairers, Except Line Installers	3	2
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	85502	Central Office and PBX Installers and Repairers	49-2022.01	Central Office and PBX Installers and Repairers	1	2
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	85505	Frame Wiers, Central Office	49-2022.02	Frame Wiers, Central Office	1	2
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	85599A	Communication Equipment Mechanics, Installers, and Repairers	49-2022.03	Communication Equipment Mechanics, Installers, and Repairers	1	2
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	85599B	Telecommunications Facility Examiners	49-2022.04	Telecommunications Facility Examiners	1	2

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49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	85726	Station Installers and  Repairers, Telephone	49-2022.05	Station Installers and Repairers, Telephone	1	2
49-2091	Avionics Technicians	85728A	Aircraft Electricians	49-2091.00	Avionics Technicians	1	1
49-2092	Electric Motor, Power Tool, and Related Repairers			49-2092.00	Electric Motor, Power Tool, and Related Repairers	3	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85711A	Electric Home Appliance and Power Tool Repairers	49-2092.01	Electric Home Appliance and Power Tool Repairers	1	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85714A	Electric Motor and Switch Assemblers and Repairers	49-2092.02	Electric Motor and Switch Assemblers and Repairers	1	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85714B	Battery Repairers	49-2092.03	Battery Repairers	1	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85714C	Transformer Repairers	49-2092.04	Transformer Repairers	1	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85714D	Electrical Parts Reconditioners	49-2092.05	Electrical Parts Reconditioners	1	2
49-2092	Electric Motor, Power Tool, and Related Repairers	85999A	Hand and Portable Power Tool Repairers	49-2092.06	Hand and Portable Power Tool Repairers	1	2
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	85728B	Ground Transportation  Electricians	49-2093.00	Electrical and Electronics Installers and  Repairers, Transportation Equipment	2	3
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	85717A	Electronics Mechanics and  Technicians	49-2094.00	Electrical and Electronics Repairers, Commercial  and Industrial Equipment	1	1
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	85721	Powerhouse, Substation, and  Relay Electricians	49-2095.00	Electrical and Electronics Repairers,  Powerhouse, Substation, and Relay	1	1
49-2096	Electronic Equipment Installers  and Repairers, Motor Vehicles	85728B	Ground Transportation  Electricians	49-2096.00	Electronic Equipment Installers and Repairers,  Motor Vehicles	2	3
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	85708	Electronic Home Entertainment Equipment Repairers	49-2097.00	Electronic Home Entertainment Equipment  Installers and Repairers	1	1
49-2098	Security and Fire Alarm Systems Installers			49-2098.00	Security and Fire Alarm Systems Installers	3	4

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49-3011	Aircraft Mechanics and Service Technicians			49-3011.00	Aircraft Mechanics and Service Technicians	3	2
49-3011	Aircraft Mechanics and Service Technicians	85323A	Airframe-and-Power-Plant Mechanics	49-3011.01	Airframe-and-Power-Plant Mechanics	1	2
49-3011	Aircraft Mechanics and Service Technicians	85326	Aircraft Engine Specialists	49-3011.02	Aircraft Engine Specialists	1	2
49-3011	Aircraft Mechanics and Service Technicians	85323B	Aircraft Body and Bonded Structure Repairers	49-3011.03	Aircraft Body and Bonded Structure Repairers	1	2
49-3021	Automotive Body and Related Repairers	85305B	Automotive Body Repairers	49-3021.00	Automotive Body and Related Repairers	1	1
49-3022	Automotive Glass Installers and Repairers	85305A	Automotive Glass Installers and Repairers	49-3022.00	Automotive Glass Installers and Repairers	1	1
49-3023	Automotive Service Technicians and Mechanics			49-3023.00	Automotive Service Technicians and Mechanics	3	2
49-3023	Automotive Service Technicians and Mechanics	85302A	Automotive Master Mechanics	49-3023.01	Automotive Master Mechanics	1	2
49-3023	Automotive Service Technicians and Mechanics	85302B	Automotive Specialty Technicians	49-3023.02	Automotive Specialty Technicians	1	2
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	85311A	Diesel Engine Mechanics	49-3031.00	Bus and Truck Mechanics and Diesel Engine Specialists	1	1
49-3041	Farm Equipment Mechanics	85321	Farm Equipment Mechanics	49-3041.00	Farm Equipment Mechanics	1	1
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	85314	Mobile Heavy Equipment Mechanics, Except Engines	49-3042.00	Mobile Heavy Equipment Mechanics, Except Engines	1	1
49-3043	Rail Car Repairers	85317	Rail Car Repairers	49-3043.00	Rail Car Repairers	1	1
49-3051	Motorboat Mechanics	85328A	Motorboat Mechanics	49-3051.00	Motorboat Mechanics	1	1
49-3052	Motorcycle Mechanics	85308	Motorcycle Mechanics and Repairers	49-3052.00	Motorcycle Mechanics	1	1
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	85328B	Small Engine Mechanics	49-3053.00	Outdoor Power Equipment and Other Small Engine Mechanics	1	1
49-3091	Bicycle Repairers	85951	Bicycle Repairers	49-3091.00	Bicycle Repairers	1	1

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49-3092	Recreational Vehicle Service Technicians	85938	Installers and Repairers- Manufactured Buildings, Mobile Homes, and Travel Trailers	49-3092.00	Recreational Vehicle Service Technicians	2	3
49-3093	Tire Repairers and Changers	85953	Tire Repairers and Changers	49-3093.00	Tire Repairers and Changers	1	1
49-9011	Mechanical Door Repairers	85928C	Mechanical Door Repairers	49-9011.00	Mechanical Door Repairers	1	1
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door			49-9012.00	Control and Valve Installers and Repairers,  Except Mechanical Door	3	2
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	85911	Electric Meter Installers and  Repairers	49-9012.01	Electric Meter Installers and Repairers	1	2
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	85928A	Valve and Regulator  Repairers	49-9012.02	Valve and Regulator Repairers	1	2
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	85928B	Meter Mechanics	49-9012.03	Meter Mechanics	1	2
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers			49-9021.00	Heating, Air Conditioning, and Refrigeration  Mechanics and Installers	3	2
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902A	Heating and Air Conditioning  Mechanics	49-9021.01	Heating and Air Conditioning Mechanics	1	2
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	85902B	Refrigeration Mechanics	49-9021.02	Refrigeration Mechanics	1	2
49-9031	Home Appliance Repairers			49-9031.00	Home Appliance Repairers	3	2
49-9031	Home Appliance Repairers	85711B	Home Appliance Installers	49-9031.01	Home Appliance Installers	1	2
49-9031	Home Appliance Repairers	85944	Gas Appliance Repairers	49-9031.02	Gas Appliance Repairers	1	2
49-9041	Industrial Machinery Mechanics	85119A	Machinery Maintenance Mechanics	49-9041.00	Industrial Machinery Mechanics	1	1

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49-9042	Maintenance and Repair Workers, General	85132	Maintenance Repairers, General Utility	49-9042.00	Maintenance and Repair Workers, General	1	1
49-9043	Maintenance Workers, Machinery	85128A	Machinery Maintenance Servicers	49-9043.00	Maintenance Workers, Machinery	1	1
49-9044	Millwrights	85123B	Millwrights	49-9044.00	Millwrights	1	1
49-9045	Refractory Materials Repairers, Except Brickmasons	85126	Refractory Materials Repairers, Except Brick Masons	49-9045.00	Refractory Materials Repairers, Except Brickmasons	1	1
49-9051	Electrical Power-Line Installers and Repairers	85723	Electrical Powerline Installers and Repairers	49-9051.00	Electrical Power-Line Installers and Repairers	1	1
49-9052	Telecommunications Line Installers and Repairers	85702	Telephone and Cable Television Line Installers	49-9052.00	Telecommunications Line Installers and Repairers	1	1
49-9061	Camera and Photographic Equipment Repairers	85914	Camera and Photographic Equipment Repairers	49-9061.00	Camera and Photographic Equipment Repairers	1	1
49-9062	Medical Equipment Repairers	85908	Electromedical and Biomedical Equipment Repairers	49-9062.00	Medical Equipment Repairers	1	1
49-9063	Musical Instrument Repairers and Tuners			49-9063.00	Musical Instrument Repairers and Tuners	3	2
49-9063	Musical Instrument Repairers and Tuners	85921A	Keyboard Instrument Repairers and Tuners	49-9063.01	Keyboard Instrument Repairers and Tuners	1	2
49-9063	Musical Instrument Repairers and Tuners	85921B	Stringed Instrument Repairers and Tuners	49-9063.02	Stringed Instrument Repairers and Tuners	1	2
49-9063	Musical Instrument Repairers and Tuners	85921C	Reed or Wind Instrument Repairers and Tuners	49-9063.03	Reed or Wind Instrument Repairers and Tuners	1	2
49-9063	Musical Instrument Repairers and Tuners	85921D	Percussion Instrument Repairers and Tuners	49-9063.04	Percussion Instrument Repairers and Tuners	1	2
49-9064	Watch Repairers	85917	Watchmakers	49-9064.00	Watch Repairers	1	1
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	85947	Coin and Vending Machine Servicers and Repairers	49-9091.00	Coin, Vending, and Amusement Machine Servicers and Repairers	1	1
49-9092	Commercial Divers	85999F	Divers	49-9092.00	Commercial Divers	1	1
49-9093	Fabric Menders, Except Garment	85956A	Textile Menders	49-9093.00	Fabric Menders, Except Garment	1	1

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49-9094	Locksmiths and Safe Repairers	85923	Locksmiths and Safe Repairers	49-9094.00	Locksmiths and Safe Repairers	1	1
49-9095	Manufactured Building and  Mobile Home Installers	85938	Installers and Repairers- Manufactured Buildings, Mobile Homes, and Travel Trailers	49-9095.00	Manufactured Building and Mobile Home  Installers	2	3
49-9096	Riggers	85935	Riggers	49-9096.00	Riggers	1	1
49-9097	Signal and Track Switch Repairers	85511	Signal or Track Switch Maintainers	49-9097.00	Signal and Track Switch Repairers	1	1
49-9098	Helpers--Installation, Maintenance, and Repair Workers	98102	Helpers- Mechanics and  Repairers	49-9098.00	Helpers--Installation, Maintenance, and Repair  Workers	1	1
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	81008	First-Line Supervisors and Manager/Supervisors- Production and Operating Workers	51-1011.00	First-Line Supervisors/Managers of Production  and Operating Workers	1	1
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers			51-2011.00	Aircraft Structure, Surfaces, Rigging, and  Systems Assemblers	3	2
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	93102B	Aircraft Structure  Assemblers, Precision	51-2011.01	Aircraft Structure Assemblers, Precision	1	2
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	93102C	Aircraft Systems Assemblers,  Precision	51-2011.02	Aircraft Systems Assemblers, Precision	1	2
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	93102D	Aircraft Rigging Assemblers	51-2011.03	Aircraft Rigging Assemblers	1	2
51-2021	Coil Winders, Tapers, and Finishers	93908	Coil Winders, Tapers, and Finishers	51-2021.00	Coil Winders, Tapers, and Finishers	1	1
51-2022	Electrical and Electronic  Equipment Assemblers	93114	Electrical and Electronic Equipment Assemblers- Precision	51-2022.00	Electrical and Electronic Equipment Assemblers	1	1
51-2023	Electromechanical Equipment  Assemblers	93111A	Electromechanical Equipment  Assemblers- Precision	51-2023.00	Electromechanical Equipment Assemblers	1	1

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51-2031	Engine and Other Machine Assemblers	93105	Machine Builders and Other Precision Machine Assemblers	51-2031.00	Engine and Other Machine Assemblers	1	1
51-2041	Structural Metal Fabricators and Fitters			51-2041.00	Structural Metal Fabricators and Fitters	3	2
51-2041	Structural Metal Fabricators and Fitters	91714	Metal Fabricators, Structural Metal Products	51-2041.01	Metal Fabricators, Structural Metal Products	1	2
51-2041	Structural Metal Fabricators and Fitters	93108	Fitters, Structural Metal- Precision	51-2041.02	Fitters, Structural Metal- Precision	1	2
51-2091	Fiberglass Laminators and Fabricators			51-2091.00	Fiberglass Laminators and Fabricators	3	4
51-2092	Team Assemblers			51-2092.00	Team Assemblers	3	4
51-2093	Timing Device Assemblers, Adjusters, and Calibrators	93117	Watch, Clock, and Chronometer Assemblers, Adjusters, and Calibrators- Precision	51-2093.00	Timing Device Assemblers, Adjusters, and Calibrators	1	1
51-3011	Bakers			51-3011.00	Bakers	3	2
51-3011	Bakers	65021	Bakers, Bread and Pastry	51-3011.01	Bakers, Bread and Pastry	1	2
51-3011	Bakers	89805	Bakers, Manufacturing	51-3011.02	Bakers, Manufacturing	1	2
51-3021	Butchers and Meat Cutters	65023	Butchers and Meat Cutters	51-3021.00	Butchers and Meat Cutters	1	1
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	93938	Meat, Poultry, and Fish Cutters and Trimmers- Hand	51-3022.00	Meat, Poultry, and Fish Cutters and Trimmers	1	1
51-3023	Slaughterers and Meat Packers	89802	Slaughterers and Butchers	51-3023.00	Slaughterers and Meat Packers	1	1
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	92921	Roasting, Baking, and Drying Machine Operators and Tenders, Food and Tobacco	51-3091.00	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	1	1
51-3092	Food Batchmakers	89808	Food Batchmakers	51-3092.00	Food Batchmakers	1	1



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51-3093	Food Cooking Machine Operators and Tenders	92917	Cooking Machine Operators and Tenders, Food and Tobacco	51-3093.00	Food Cooking Machine Operators and Tenders	1	1
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic			51-4011.00	Computer-Controlled Machine Tool Operators,  Metal and Plastic	3	2
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	91502	Numerical Control Machine Tool Operators and Tenders, Metal and Plastic	51-4011.01	Numerical Control Machine Tool Operators and  Tenders, Metal and Plastic	1	2
51-4012	Numerical Tool and Process Control Programmers	25111	Programmers- Numerical, Tool, and Process Control	51-4012.00	Numerical Tool and Process Control Programmers	1	1
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	91311	Extruding and Drawing  Machine Setters and Set-Up Operators, Metal and Plastic	51-4021.00	Extruding and Drawing Machine Setters,  Operators, and Tenders, Metal and Plastic	1	1
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	91317	Forging Machine Setters and Set-Up Operators, Metal and Plastic	51-4022.00	Forging Machine Setters, Operators, and  Tenders, Metal and Plastic	1	1
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	91314	Rolling Machine Setters and Set-Up Operators, Metal and Plastic	51-4023.00	Rolling Machine Setters, Operators, and Tenders,  Metal and Plastic	1	1
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic			51-4031.00	Cutting, Punching, and Press Machine Setters,  Operators, and Tenders, Metal and Plastic	3	2
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	91102	Sawing Machine Tool Setters and Set-Up Operators, Metal and Plastic	51-4031.01	Sawing Machine Tool Setters and Set-Up  Operators, Metal and Plastic	1	2
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	91302	Punching Machine Setters and Set-Up Operators, Metal and Plastic	51-4031.02	Punching Machine Setters and Set-Up Operators,  Metal and Plastic	1	2
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	91305	Press and Press Brake Machine Setters and Set-Up Operators, Metal and Plastic	51-4031.03	Press and Press Brake Machine Setters and Set-  Up Operators, Metal and Plastic	1	2

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51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	91308	Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic	51-4031.04	Shear and Slitter Machine Setters and Set-Up Operators, Metal and Plastic	1	2
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91108	Drilling and Boring Machine Tool Setters and Set-Up Operators, Metal and Plastic	51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	1
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic			51-4033.00	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3	2
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91114A	Grinding, Honing, Lapping, and Deburring Machine Set-Up Operators	51-4033.01	Grinding, Honing, Lapping, and Deburring Machine Set-Up Operators	1	2
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91114B	Buffing and Polishing Set-Up Operators	51-4033.02	Buffing and Polishing Set-Up Operators	1	2
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91105	Lathe and Turning Machine Tool Setters and Set-Up Operators, Metal and Plastic	51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1	1
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	91111	Milling and Planing Machine Setters and Set-Up Operators, Metal and Plastic	51-4035.00	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	1	1
51-4041	Machinists	89108	Machinists	51-4041.00	Machinists	1	1
51-4051	Metal-Refining Furnace Operators and Tenders	91935	Furnace Operators and Tenders	51-4051.00	Metal-Refining Furnace Operators and Tenders	1	1
51-4052	Pourers and Casters, Metal	93941	Metal Pourers and Casters, Basic Shapes	51-4052.00	Pourers and Casters, Metal	1	1
51-4061	Model Makers, Metal and Plastic	89114A	Model Makers, Metal and Plastic	51-4061.00	Model Makers, Metal and Plastic	1	1
51-4062	Patternmakers, Metal and Plastic	89114B	Patternmakers, Metal and Plastic	51-4062.00	Patternmakers, Metal and Plastic	1	1

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51-4071	Foundry Mold and Coremakers	89902	Precision Foundry Mold and Core Makers	51-4071.00	Foundry Mold and Coremakers	1	1
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic			51-4072.00	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	3	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	91902	Plastic Molding and Casting Machine Setters and Set-Up Operators	51-4072.01	Plastic Molding and Casting Machine Setters and Set-Up Operators	1	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	91905	Plastic Molding and Casting Machine Operators and Tenders	51-4072.02	Plastic Molding and Casting Machine Operators and Tenders	1	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	91908	Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators	51-4072.03	Metal Molding, Coremaking, and Casting Machine Setters and Set-Up Operators	1	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	91911	Metal Molding, Coremaking, and Casting Machine Operators and Tenders	51-4072.04	Metal Molding, Coremaking, and Casting Machine Operators and Tenders	1	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	92529B	Casting Machine Set-Up Operators	51-4072.05	Casting Machine Set-Up Operators	1	2
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic			51-4081.00	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3	2
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91505	Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic	51-4081.01	Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic	1	2
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	91508	Combination Machine Tool Operators and Tenders, Metal and Plastic	51-4081.02	Combination Machine Tool Operators and Tenders, Metal and Plastic	1	2
51-4111	Tool and Die Makers	89102	Tool and Die Makers	51-4111.00	Tool and Die Makers	1	1

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51-4121	Welders, Cutters, Solderers, and Brazers			51-4121.00	Welders, Cutters, Solderers, and Brazers	3	2
51-4121	Welders, Cutters, Solderers, and Brazers	93914A	Welders, Production	51-4121.01	Welders, Production	1	2
51-4121	Welders, Cutters, Solderers, and Brazers	93914B	Welders and Cutters	51-4121.02	Welders and Cutters	1	2
51-4121	Welders, Cutters, Solderers, and Brazers	93914C	Welder-Fitters	51-4121.03	Welder-Fitters	1	2
51-4121	Welders, Cutters, Solderers, and Brazers	93917A	Solderers	51-4121.04	Solderers	1	2
51-4121	Welders, Cutters, Solderers, and Brazers	93917B	Brazers	51-4121.05	Brazers	1	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders			51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	3	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	91702	Welding Machine Setters and Set-Up Operators	51-4122.01	Welding Machine Setters and Set-Up Operators	1	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	91705	Welding Machine Operators and Tenders	51-4122.02	Welding Machine Operators and Tenders	1	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	91708	Soldering and Brazing Machine Setters and Set-Up Operators	51-4122.03	Soldering and Brazing Machine Setters and Set-Up Operators	1	2
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	91711	Soldering and Brazing Machine Operators and Tenders	51-4122.04	Soldering and Brazing Machine Operators and Tenders	1	2
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic			51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	3	2
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	91928	Heating Equipment Setters and Set-Up Operators, Metal and Plastic	51-4191.01	Heating Equipment Setters and Set-Up Operators, Metal and Plastic	1	2
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	91932	Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic	51-4191.02	Heat Treating, Annealing, and Tempering Machine Operators and Tenders, Metal and Plastic	1	2

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<b>CODE</b>		<b>(OU)</b>		<b>(O*NET-SOC)</b>		<b>AVAIL.</b>	
<b>CODE</b>		<b>CODE</b>		<b>CODE</b>			
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	91938	Heaters, Metal and Plastic	51-4191.03	Heaters, Metal and Plastic	1	2
51-4192	Lay-Out Workers, Metal and Plastic	89117	Precision Layout Workers, Metal	51-4192.00	Lay-Out Workers, Metal and Plastic	1	1
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic			51-4193.00	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	3	2
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	91917	Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic	51-4193.01	Electrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic	1	2
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	91921	Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic	51-4193.02	Electrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic	1	2
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	91923	Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic	51-4193.03	Nonelectrolytic Plating and Coating Machine Setters and Set-Up Operators, Metal and Plastic	1	2
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	91926	Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic	51-4193.04	Nonelectrolytic Plating and Coating Machine Operators and Tenders, Metal and Plastic	1	2
51-4194	Tool Grinders, Filers, and Sharpeners	89111	Tool Grinders, Filers, Sharpeners, and Other Precision Grinders	51-4194.00	Tool Grinders, Filers, and Sharpeners	1	1
51-5011	Bindery Workers			51-5011.00	Bindery Workers	3	2
51-5011	Bindery Workers	92525	Bindery Machine Setters and Set-Up Operators	51-5011.01	Bindery Machine Setters and Set-Up Operators	1	2
51-5011	Bindery Workers	92546	Bindery Machine Operators and Tenders	51-5011.02	Bindery Machine Operators and Tenders	1	2
51-5012	Bookbinders	89721	Bookbinders	51-5012.00	Bookbinders	1	1
51-5021	Job Printers	89705	Job Printers	51-5021.00	Job Printers	1	1

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51-5022	Prepress Technicians and Workers			51-5022.00	Prepress Technicians and Workers	3	2
51-5022	Prepress Technicians and Workers	89702	Hand Compositors and Typesetters	51-5022.01	Hand Compositors and Typesetters	1	2
51-5022	Prepress Technicians and Workers	89706	Paste-Up Workers	51-5022.02	Paste-Up Workers	1	2
51-5022	Prepress Technicians and Workers	89712	Photoengravers	51-5022.03	Photoengravers	1	2
51-5022	Prepress Technicians and Workers	89713	Camera Operators	51-5022.04	Camera Operators	1	2
51-5022	Prepress Technicians and Workers	89715	Scanner Operators	51-5022.05	Scanner Operators	1	2
51-5022	Prepress Technicians and Workers	89717	Strippers	51-5022.06	Strippers	1	2
51-5022	Prepress Technicians and Workers	89718	Platemakers	51-5022.07	Platemakers	1	2
51-5022	Prepress Technicians and Workers	89719A	Dot Etchers	51-5022.08	Dot Etchers	1	2
51-5022	Prepress Technicians and Workers	89719B	Electronic Masking System Operators	51-5022.09	Electronic Masking System Operators	1	2
51-5022	Prepress Technicians and Workers	89799B	Electrotypers and Stereotypers	51-5022.10	Electrotypers and Stereotypers	1	2
51-5022	Prepress Technicians and Workers	92529C	Plate Finishers	51-5022.11	Plate Finishers	1	2
51-5022	Prepress Technicians and Workers	92541	Typesetting and Composing Machine Operators and Tenders	51-5022.12	Typesetting and Composing Machine Operators and Tenders	1	2
51-5022	Prepress Technicians and Workers	92545	Photoengraving and Lithographing Machine Operators and Tenders	51-5022.13	Photoengraving and Lithographing Machine Operators and Tenders	1	2
51-5023	Printing Machine Operators			51-5023.00	Printing Machine Operators	3	2
51-5023	Printing Machine Operators	89799A	Precision Printing Workers	51-5023.01	Precision Printing Workers	1	2
51-5023	Printing Machine Operators	92512	Offset Lithographic Press Setters and Set-Up Operators	51-5023.02	Offset Lithographic Press Setters and Set-Up Operators	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
51-5023	Printing Machine Operators	92515	Letterpress Setters and Set-Up Operators	51-5023.03	Letterpress Setters and Set-Up Operators	1	2
51-5023	Printing Machine Operators	92522A	Design Printing Machine Setters and Set-Up Operators	51-5023.04	Design Printing Machine Setters and Set-Up Operators	1	2
51-5023	Printing Machine Operators	92522B	Marking and Identification Printing Machine Setters and Set-Up Operators	51-5023.05	Marking and Identification Printing Machine Setters and Set-Up Operators	1	2
51-5023	Printing Machine Operators	92524	Screen Printing Machine Setters and Set-Up Operators	51-5023.06	Screen Printing Machine Setters and Set-Up Operators	1	2
51-5023	Printing Machine Operators	92529A	Embossing Machine Set-Up Operators	51-5023.07	Embossing Machine Set-Up Operators	1	2
51-5023	Printing Machine Operators	92529D	Engraver Set-Up Operators	51-5023.08	Engraver Set-Up Operators	1	2
51-5023	Printing Machine Operators	92543	Printing Press Machine Operators and Tenders	51-5023.09	Printing Press Machine Operators and Tenders	1	2
51-6011	Laundry and Dry-Cleaning Workers			51-6011.00	Laundry and Dry-Cleaning Workers	3	2
51-6011	Laundry and Dry-Cleaning Workers	89514	Spotters, Dry Cleaning	51-6011.01	Spotters, Dry Cleaning	1	2
51-6011	Laundry and Dry-Cleaning Workers	89521	Precision Dyers	51-6011.02	Precision Dyers	1	2
51-6011	Laundry and Dry-Cleaning Workers	92726	Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	51-6011.03	Laundry and Drycleaning Machine Operators and Tenders, Except Pressing	1	2
51-6021	Pressers, Textile, Garment, and Related Materials			51-6021.00	Pressers, Textile, Garment, and Related Materials	3	2
51-6021	Pressers, Textile, Garment, and Related Materials	89517	Pressers, Delicate Fabrics	51-6021.01	Pressers, Delicate Fabrics	1	2
51-6021	Pressers, Textile, Garment, and Related Materials	92728	Pressing Machine Operators and Tenders- Textile, Garment, and Related Materials	51-6021.02	Pressing Machine Operators and Tenders- Textile, Garment, and Related Materials	1	2
51-6021	Pressers, Textile, Garment, and Related Materials	93921	Pressers, Hand	51-6021.03	Pressers, Hand	1	2
51-6031	Sewing Machine Operators			51-6031.00	Sewing Machine Operators	3	2

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<b>SOC</b>	<b>SOC TITLE</b>	<b>O*NET 98</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA</b>	<b>link</b>
<b>CODE</b>		<b>(OU)</b>		<b>(O*NET-SOC)</b>		<b>AVAIL.</b>	
<b>CODE</b>		<b>CODE</b>		<b>CODE</b>			
51-6031	Sewing Machine Operators	92717	Sewing Machine Operators, Garment	51-6031.01	Sewing Machine Operators, Garment	1	2
51-6031	Sewing Machine Operators	92721	Sewing Machine Operators, Non-Garment	51-6031.02	Sewing Machine Operators, Non-Garment	1	2
51-6041	Shoe and Leather Workers and Repairers	89511	Shoe and Leather Workers and Repairers- Precision	51-6041.00	Shoe and Leather Workers and Repairers	1	1
51-6042	Shoe Machine Operators and Tenders	92723	Shoe Sewing Machine Operators and Tenders	51-6042.00	Shoe Machine Operators and Tenders	1	1
51-6051	Sewers, Hand	93923B	Sewers, Hand	51-6051.00	Sewers, Hand	1	1
51-6052	Tailors, Dressmakers, and Custom Sewers			51-6052.00	Tailors, Dressmakers, and Custom Sewers	3	2
51-6052	Tailors, Dressmakers, and Custom Sewers	89505A	Shop and Alteration Tailors	51-6052.01	Shop and Alteration Tailors	1	2
51-6052	Tailors, Dressmakers, and Custom Sewers	89505B	Custom Tailors	51-6052.02	Custom Tailors	1	2
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	92714	Textile Bleaching and Dyeing Machine Operators and Tenders	51-6061.00	Textile Bleaching and Dyeing Machine Operators and Tenders	1	1
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	92702	Textile Machine Setters and Set-Up Operators	51-6062.00	Textile Cutting Machine Setters, Operators, and Tenders	2	3
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	92702	Textile Machine Setters and Set-Up Operators	51-6063.00	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	2	3
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	92702	Textile Machine Setters and Set-Up Operators	51-6064.00	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	2	3
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers			51-6091.00	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	3	2
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	92708	Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers	51-6091.01	Extruding and Forming Machine Operators and Tenders, Synthetic or Glass Fibers	1	2



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51-6092	Fabric and Apparel Patternmakers	89502A	Fabric and Apparel Patternmakers	51-6092.00	Fabric and Apparel Patternmakers	1	1
51-6093	Upholsterers	89508	Upholsterers	51-6093.00	Upholsterers	1	1
51-7011	Cabinetmakers and Bench Carpenters	89311	Cabinetmakers and Bench Carpenters	51-7011.00	Cabinetmakers and Bench Carpenters	1	1
51-7021	Furniture Finishers	89314	Furniture Finishers	51-7021.00	Furniture Finishers	1	1
51-7031	Model Makers, Wood	89302A	Patternmakers and Model Makers, Wood	51-7031.00	Model Makers, Wood	2	3
51-7032	Patternmakers, Wood	89302A	Patternmakers and Model Makers, Wood	51-7032.00	Patternmakers, Wood	2	3
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood			51-7041.00	Sawing Machine Setters, Operators, and Tenders, Wood	3	2
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	92302	Sawing Machine Setters and Set-Up Operators	51-7041.01	Sawing Machine Setters and Set-Up Operators	1	2
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	92308	Sawing Machine Operators and Tenders	51-7041.02	Sawing Machine Operators and Tenders	1	2
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing			51-7042.00	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	3	2
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	92311	Woodworking Machine Setters and Set-Up Operators, Except Sawing	51-7042.01	Woodworking Machine Setters and Set-Up Operators, Except Sawing	1	2
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	92314	Woodworking Machine Operators and Tenders, Except Sawing	51-7042.02	Woodworking Machine Operators and Tenders, Except Sawing	1	2
51-8011	Nuclear Power Reactor Operators	95026	Power Reactor Operators	51-8011.00	Nuclear Power Reactor Operators	1	1
51-8012	Power Distributors and Dispatchers	95028	Power Distributors and Dispatchers	51-8012.00	Power Distributors and Dispatchers	1	1
51-8013	Power Plant Operators			51-8013.00	Power Plant Operators	3	2

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51-8013	Power Plant Operators	95021	Power Generating Plant Operators, Except Auxiliary Equipment Operators	51-8013.01	Power Generating Plant Operators, Except  Auxiliary Equipment Operators	1	2
51-8013	Power Plant Operators	95023	Auxiliary Equipment Operators, Power	51-8013.02	Auxiliary Equipment Operators, Power	1	2
51-8021	Stationary Engineers and Boiler Operators			51-8021.00	Stationary Engineers and Boiler Operators	3	2
51-8021	Stationary Engineers and Boiler Operators	92926	Boiler Operators and Tenders, Low Pressure	51-8021.01	Boiler Operators and Tenders, Low Pressure	1	2
51-8021	Stationary Engineers and Boiler Operators	95032	Stationary Engineers	51-8021.02	Stationary Engineers	1	2
51-8031	Water and Liquid Waste Treatment Plant and System Operators	95002A	Water Treatment Plant and  System Operators	51-8031.00	Water and Liquid Waste Treatment Plant and  System Operators	1	1
51-8091	Chemical Plant and System Operators	95008	Chemical Plant and System Operators	51-8091.00	Chemical Plant and System Operators	1	1
51-8092	Gas Plant Operators			51-8092.00	Gas Plant Operators	3	2
51-8092	Gas Plant Operators	95005A	Gas Processing Plant Operators	51-8092.01	Gas Processing Plant Operators	1	2
51-8092	Gas Plant Operators	95005B	Gas Distribution Plant Operators	51-8092.02	Gas Distribution Plant Operators	1	2
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers			51-8093.00	Petroleum Pump System Operators, Refinery  Operators, and Gaugers	3	2
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	95011	Petroleum Pump System  Operators	51-8093.01	Petroleum Pump System Operators	1	2
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	95014	Petroleum Refinery and  Control Panel Operators	51-8093.02	Petroleum Refinery and Control Panel Operators	1	2
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	95017	Gaugers	51-8093.03	Gaugers	1	2
51-9011	Chemical Equipment Operators and Tenders			51-9011.00	Chemical Equipment Operators and Tenders	3	2
51-9011	Chemical Equipment Operators and Tenders	92935	Chemical Equipment Controllers and Operators	51-9011.01	Chemical Equipment Controllers and Operators	1	2

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51-9011	Chemical Equipment Operators and Tenders	92938	Chemical Equipment Tenders	51-9011.02	Chemical Equipment Tenders	1	2
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	92962	Separating, Filtering, Clarifying, Precipitating, and Still Machine Operators and Tenders	51-9012.00	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	1	1
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	51-9021.00	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	2	3
51-9022	Grinding and Polishing Workers, Hand	93953	Grinding and Polishing Workers, Hand	51-9022.00	Grinding and Polishing Workers, Hand	1	1
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	92965	Crushing, Grinding, Mixing, and Blending Machine Operators and Tenders	51-9023.00	Mixing and Blending Machine Setters, Operators, and Tenders	2	3
51-9031	Cutters and Trimmers, Hand	93926E	Cutters and Trimmers, Hand	51-9031.00	Cutters and Trimmers, Hand	1	1
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders			51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	3	2
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	92941A	Fiber Product Cutting Machine Setters and Set-Up Operators	51-9032.01	Fiber Product Cutting Machine Setters and Set-Up Operators	1	2
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	92941B	Stone Sawyers	51-9032.02	Stone Sawyers	1	2
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	92941D	Glass Cutting Machine Setters and Set-Up Operators	51-9032.03	Glass Cutting Machine Setters and Set-Up Operators	1	2
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	92944	Cutting and Slicing Machine Operators and Tenders	51-9032.04	Cutting and Slicing Machine Operators and Tenders	1	2
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders			51-9041.00	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	3	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	92968	Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators	51-9041.01	Extruding, Forming, Pressing, and Compacting Machine Setters and Set-Up Operators	1	2
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	92971	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	51-9041.02	Extruding, Forming, Pressing, and Compacting Machine Operators and Tenders	1	2
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	92923	Furnace, Kiln, Oven, Drier, or Kettle Operators and Tenders	51-9051.00	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	1	1
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers			51-9061.00	Inspectors, Testers, Sorters, Samplers, and Weighers	3	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	83002A	Materials Inspectors	51-9061.01	Materials Inspectors	1	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	83002B	Mechanical Inspectors	51-9061.02	Mechanical Inspectors	1	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	83002C	Precision Devices Inspectors and Testers	51-9061.03	Precision Devices Inspectors and Testers	1	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	83002D	Electrical and Electronic Inspectors and Testers	51-9061.04	Electrical and Electronic Inspectors and Testers	1	2
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	83005A	Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers	51-9061.05	Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers	1	2
51-9071	Jewelers and Precious Stone and Metal Workers			51-9071.00	Jewelers and Precious Stone and Metal Workers	3	2
51-9071	Jewelers and Precious Stone and Metal Workers	89123A	Jewelers	51-9071.01	Jewelers	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	89123B	Silversmiths	51-9071.02	Silversmiths	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	89126C	Model and Mold Makers, Jewelry	51-9071.03	Model and Mold Makers, Jewelry	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	89126E	Bench Workers, Jewelry	51-9071.04	Bench Workers, Jewelry	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	89126K	Pewter Casters and Finishers	51-9071.05	Pewter Casters and Finishers	1	2
51-9071	Jewelers and Precious Stone and Metal Workers	89926A	Gem and Diamond Workers	51-9071.06	Gem and Diamond Workers	1	2

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51-9081	Dental Laboratory Technicians	89921	Precision Dental Laboratory Technicians	51-9081.00	Dental Laboratory Technicians	1	1
51-9082	Medical Appliance Technicians	89923	Medical Appliance Makers	51-9082.00	Medical Appliance Technicians	1	1
51-9083	Ophthalmic Laboratory Technicians			51-9083.00	Ophthalmic Laboratory Technicians	3	2
51-9083	Ophthalmic Laboratory Technicians	89917A	Precision Lens Grinders and Polishers	51-9083.01	Precision Lens Grinders and Polishers	1	2
51-9083	Ophthalmic Laboratory Technicians	89917D	Optical Instrument Assemblers	51-9083.02	Optical Instrument Assemblers	1	2
51-9111	Packaging and Filling Machine Operators and Tenders	92974	Packaging and Filling Machine Operators and Tenders	51-9111.00	Packaging and Filling Machine Operators and Tenders	1	1
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders			51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	3	2
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	92951	Coating, Painting, and Spraying Machine Setters and Set-Up Operators	51-9121.01	Coating, Painting, and Spraying Machine Setters and Set-Up Operators	1	2
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	92953	Coating, Painting, and Spraying Machine Operators and Tenders	51-9121.02	Coating, Painting, and Spraying Machine Operators and Tenders	1	2
51-9122	Painters, Transportation Equipment	92947	Painters, Transportation Equipment	51-9122.00	Painters, Transportation Equipment	1	1
51-9123	Painting, Coating, and Decorating Workers	93947E	Hand Painting, Coating, or Decorating Workers	51-9123.00	Painting, Coating, and Decorating Workers	1	1
51-9131	Photographic Process Workers			51-9131.00	Photographic Process Workers	3	2
51-9131	Photographic Process Workers	89914A	Photographic Retouchers and Restorers	51-9131.01	Photographic Retouchers and Restorers	1	2
51-9131	Photographic Process Workers	89914B	Photographic Reproduction Technicians	51-9131.02	Photographic Reproduction Technicians	1	2
51-9131	Photographic Process Workers	89914C	Photographic Hand Developers	51-9131.03	Photographic Hand Developers	1	2
51-9131	Photographic Process Workers	89914D	Film Laboratory Technicians	51-9131.04	Film Laboratory Technicians	1	2

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51-9132	Photographic Processing Machine Operators	92908	Photographic Processing Machine Operators and Tenders	51-9132.00	Photographic Processing Machine Operators	1	1
51-9141	Semiconductor Processors	92902A	Electronic Semiconductor Processors	51-9141.00	Semiconductor Processors	1	1
51-9191	Cementing and Gluing Machine Operators and Tenders	92956	Cementing and Gluing Machine Operators and Tenders	51-9191.00	Cementing and Gluing Machine Operators and Tenders	1	1
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	92958	Cleaning, Washing, and Pickling Equipment Operators and Tenders	51-9192.00	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	1	1
51-9193	Cooling and Freezing Equipment Operators and Tenders	92928	Cooling and Freezing Equipment Operators and Tenders	51-9193.00	Cooling and Freezing Equipment Operators and Tenders	1	1
51-9194	Etchers and Engravers			51-9194.00	Etchers and Engravers	3	2
51-9194	Etchers and Engravers	89128	Precision Etchers and Engravers, Hand or Machine	51-9194.01	Precision Etchers and Engravers, Hand or Machine	1	2
51-9194	Etchers and Engravers	89911C	Engravers/Carvers	51-9194.02	Engravers/Carvers	1	2
51-9194	Etchers and Engravers	89911D	Etchers	51-9194.03	Etchers	1	2
51-9194	Etchers and Engravers	93951A	Pantograph Engravers	51-9194.04	Pantograph Engravers	1	2
51-9194	Etchers and Engravers	93951B	Etchers, Hand	51-9194.05	Etchers, Hand	1	2
51-9194	Etchers and Engravers	93951D	Engravers, Hand	51-9194.06	Engravers, Hand	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic			51-9195.00	Molders, Shapers, and Casters, Except Metal and Plastic	3	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	89905A	Precision Mold and Pattern Casters, except Nonferrous Metals	51-9195.01	Precision Mold and Pattern Casters, except Nonferrous Metals	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	89905B	Precision Pattern and Die Casters, Nonferrous Metals	51-9195.02	Precision Pattern and Die Casters, Nonferrous Metals	1	2

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51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	89905C	Stone Cutters and Carvers	51-9195.03	Stone Cutters and Carvers	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	89905D	Glass Blowers, Molders, Benders, and Finishers	51-9195.04	Glass Blowers, Molders, Benders, and Finishers	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	89905F	Potters	51-9195.05	Potters	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	93944A	Mold Makers, Hand	51-9195.06	Mold Makers, Hand	1	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	93944D	Molding and Casting Workers	51-9195.07	Molding and Casting Workers	1	2
51-9196	Paper Goods Machine Setters, Operators, and Tenders	92914	Paper Goods Machine Setters and Set-Up Operators	51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	1	1
51-9197	Tire Builders	92911	Tire Building Machine Operators	51-9197.00	Tire Builders	1	1
51-9198	Helpers--Production Workers			51-9198.00	Helpers--Production Workers	3	2
51-9198	Helpers--Production Workers	98999A	Production Laborers	51-9198.01	Production Laborers	1	2
51-9198	Helpers--Production Workers	98999B	Production Helpers	51-9198.02	Production Helpers	1	2
53-1011	Aircraft Cargo Handling Supervisors			53-1011.00	Aircraft Cargo Handling Supervisors	3	4
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	81017	First-Line Supervisors and Manager/Supervisors- Helpers, Laborers, and Material Movers, Hand	53-1021.00	First-Line Supervisors/Managers of Helpers,  Laborers, and Material Movers, Hand	1	1
53-1031	First-Line Supervisors/Managers of Transportation and Material- Moving Machine and Vehicle Operators	81011	First-Line Supervisors and Manager/Supervisors- Transportation and Material Moving Machine and Vehicle Operators	53-1031.00	First-Line Supervisors/Managers of  Transportation and Material-Moving Machine and Vehicle Operators	1	1

SOC-OU-ONETSOC crosswalk

SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
53-2011	Airline Pilots, Copilots, and Flight Engineers	97702B	Commercial Airplane Pilots	53-2011.00	Airline Pilots, Copilots, and Flight Engineers	2	3
53-2012	Commercial Pilots	97702B	Commercial Airplane Pilots	53-2012.00	Commercial Pilots	2	3
53-2021	Air Traffic Controllers	39002	Airplane Dispatchers and Air Traffic Controllers	53-2021.00	Air Traffic Controllers	1	1
53-2022	Airfield Operations Specialists			53-2022.00	Airfield Operations Specialists	3	4
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	66023	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	53-3011.00	Ambulance Drivers and Attendants, Except  Emergency Medical Technicians	1	1
53-3021	Bus Drivers, Transit and Intercity	97108	Bus Drivers	53-3021.00	Bus Drivers, Transit and Intercity	1	1
53-3022	Bus Drivers, School	97111	Bus Drivers, School	53-3022.00	Bus Drivers, School	1	1
53-3031	Driver/Sales Workers	97117	Driver/Sales Workers	53-3031.00	Driver/Sales Workers	1	1
53-3032	Truck Drivers, Heavy and Tractor-Trailer			53-3032.00	Truck Drivers, Heavy and Tractor-Trailer	3	2
53-3032	Truck Drivers, Heavy and Tractor-Trailer	97102A	Truck Drivers, Heavy	53-3032.01	Truck Drivers, Heavy	1	2
53-3032	Truck Drivers, Heavy and Tractor-Trailer	97102B	Tractor-Trailer Truck Drivers	53-3032.02	Tractor-Trailer Truck Drivers	1	2
53-3033	Truck Drivers, Light or Delivery Services	97105	Truck Drivers, Light- Including Delivery and Route Workers	53-3033.00	Truck Drivers, Light or Delivery Services	1	1
53-3041	Taxi Drivers and Chauffeurs	97114	Taxi Drivers and Chauffeurs	53-3041.00	Taxi Drivers and Chauffeurs	1	1
53-4011	Locomotive Engineers	97305	Locomotive Engineers	53-4011.00	Locomotive Engineers	1	1
53-4012	Locomotive Firers	97311	Locomotive Firers	53-4012.00	Locomotive Firers	1	1
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	97308	Rail Yard Engineers, Dinkey Operators, and Hostlers	53-4013.00	Rail Yard Engineers, Dinkey Operators, and Hostlers	1	1
53-4021	Railroad Brake, Signal, and Switch Operators			53-4021.00	Railroad Brake, Signal, and Switch Operators	3	2



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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
53-4021	Railroad Brake, Signal, and Switch Operators	97317A	Train Crew Members	53-4021.01	Train Crew Members	1	2
53-4021	Railroad Brake, Signal, and Switch Operators	97317B	Railroad Yard Workers	53-4021.02	Railroad Yard Workers	1	2
53-4031	Railroad Conductors and Yardmasters	97302	Railroad Conductors and Yardmasters	53-4031.00	Railroad Conductors and Yardmasters	1	1
53-4041	Subway and Streetcar Operators	97314	Subway and Streetcar Operators	53-4041.00	Subway and Streetcar Operators	1	1
53-5011	Sailors and Marine Oilers			53-5011.00	Sailors and Marine Oilers	3	2
53-5011	Sailors and Marine Oilers	97514	Able Seamen	53-5011.01	Able Seamen	1	2
53-5011	Sailors and Marine Oilers	97517	Ordinary Seamen and Marine Oilers	53-5011.02	Ordinary Seamen and Marine Oilers	1	2
53-5021	Captains, Mates, and Pilots of Water Vessels			53-5021.00	Captains, Mates, and Pilots of Water Vessels	3	2
53-5021	Captains, Mates, and Pilots of Water Vessels	97502A	Ship and Boat Captains	53-5021.01	Ship and Boat Captains	1	2
53-5021	Captains, Mates, and Pilots of Water Vessels	97505	Mates- Ship, Boat, and Barge	53-5021.02	Mates- Ship, Boat, and Barge	1	2
53-5021	Captains, Mates, and Pilots of Water Vessels	97508	Pilots, Ship	53-5021.03	Pilots, Ship	1	2
53-5022	Motorboat Operators	97511	Motorboat Operators	53-5022.00	Motorboat Operators	1	1
53-5031	Ship Engineers	97521	Ship Engineers	53-5031.00	Ship Engineers	1	1
53-6011	Bridge and Lock Tenders	97802	Bridge, Lock, and Lighthouse Tenders	53-6011.00	Bridge and Lock Tenders	1	1
53-6021	Parking Lot Attendants	97808	Parking Lot Attendants	53-6021.00	Parking Lot Attendants	1	1
53-6031	Service Station Attendants	97805	Service Station Attendants	53-6031.00	Service Station Attendants	1	1
53-6041	Traffic Technicians	39005	Traffic Technicians	53-6041.00	Traffic Technicians	1	1
53-6051	Transportation Inspectors			53-6051.00	Transportation Inspectors	3	2
53-6051	Transportation Inspectors	21911K	Aviation Inspectors	53-6051.01	Aviation Inspectors	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
53-6051	Transportation Inspectors	21911M	Public Transportation Inspectors	53-6051.02	Public Transportation Inspectors	1	2
53-6051	Transportation Inspectors	21911N	Marine Cargo Inspectors	53-6051.03	Marine Cargo Inspectors	1	2
53-6051	Transportation Inspectors	83008A	Railroad Inspectors	53-6051.04	Railroad Inspectors	1	2
53-6051	Transportation Inspectors	83008C	Motor Vehicle Inspectors	53-6051.05	Motor Vehicle Inspectors	1	2
53-6051	Transportation Inspectors	83008D	Freight Inspectors	53-6051.06	Freight Inspectors	1	2
53-7011	Conveyor Operators and Tenders	97951	Conveyor Operators and Tenders	53-7011.00	Conveyor Operators and Tenders	1	1
53-7021	Crane and Tower Operators	97944	Crane and Tower Operators	53-7021.00	Crane and Tower Operators	1	1
53-7031	Dredge Operators	97928	Dredge Operators	53-7031.00	Dredge Operators	1	1
53-7032	Excavating and Loading Machine and Dragline Operators			53-7032.00	Excavating and Loading Machine and Dragline Operators	3	2
53-7032	Excavating and Loading Machine and Dragline Operators	97923A	Excavating and Loading Machine Operators	53-7032.01	Excavating and Loading Machine Operators	1	2
53-7032	Excavating and Loading Machine and Dragline Operators	97926	Dragline Operators	53-7032.02	Dragline Operators	1	2
53-7033	Loading Machine Operators, Underground Mining	97932	Loading Machine Operators, Underground Mining	53-7033.00	Loading Machine Operators, Underground Mining	1	1
53-7041	Hoist and Winch Operators	97941	Hoist and Winch Operators	53-7041.00	Hoist and Winch Operators	1	1
53-7051	Industrial Truck and Tractor Operators	97947	Industrial Truck and Tractor Operators	53-7051.00	Industrial Truck and Tractor Operators	1	1
53-7061	Cleaners of Vehicles and Equipment	98905	Vehicle Washers and Equipment Cleaners	53-7061.00	Cleaners of Vehicles and Equipment	1	1
53-7062	Laborers and Freight, Stock, and Material Movers, Hand			53-7062.00	Laborers and Freight, Stock, and Material Movers, Hand	3	2
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	98702	Stevedores, Except Equipment Operators	53-7062.01	Stevedores, Except Equipment Operators	1	2

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SOC  CODE	SOC TITLE	O*NET 98  (OU)  CODE	O*NET 98 (OU) TITLE	O*NET 3.0  (O*NET-SOC)  CODE	O*NET 3.0 (O*NET-SOC) TITLE	DATA AVAIL.	link
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	98799A	Grips and Set-Up Workers, Motion Picture Sets, Studios, and Stages	53-7062.02	Grips and Set-Up Workers, Motion Picture Sets, Studios, and Stages	1	2
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	98799B	Freight, Stock, and Material Movers, Hand	53-7062.03	Freight, Stock, and Material Movers, Hand	1	2
53-7063	Machine Feeders and Offbearers	98502	Machine Feeders and Offbearers	53-7063.00	Machine Feeders and Offbearers	1	1
53-7064	Packers and Packagers, Hand	98902A	Packers and Packagers, Hand	53-7064.00	Packers and Packagers, Hand	1	1
53-7071	Gas Compressor and Gas Pumping Station Operators			53-7071.00	Gas Compressor and Gas Pumping Station Operators	3	2
53-7071	Gas Compressor and Gas Pumping Station Operators	97917	Gas Pumping Station Operators	53-7071.01	Gas Pumping Station Operators	1	2
53-7071	Gas Compressor and Gas Pumping Station Operators	97921	Gas Compressor Operators	53-7071.02	Gas Compressor Operators	1	2
53-7072	Pump Operators, Except Wellhead Pumpers	97953	Pump Operators	53-7072.00	Pump Operators, Except Wellhead Pumpers	1	1
53-7073	Wellhead Pumpers	97911	Well Head Pumpers	53-7073.00	Wellhead Pumpers	1	1
53-7081	Refuse and Recyclable Material Collectors	98705	Refuse and Recyclable Material Collectors	53-7081.00	Refuse and Recyclable Material Collectors	1	1
53-7111	Shuttle Car Operators	97935	Shuttle Car Operators	53-7111.00	Shuttle Car Operators	1	1
53-7121	Tank Car, Truck, and Ship Loaders	97905	Tank Car and Truck Loaders	53-7121.00	Tank Car, Truck, and Ship Loaders	1	1
55-1011	Air Crew Officers			55-1011.00	Air Crew Officers	3	4
55-1012	Aircraft Launch and Recovery Officers			55-1012.00	Aircraft Launch and Recovery Officers	3	4
55-1013	Armored Assault Vehicle Officers			55-1013.00	Armored Assault Vehicle Officers	3	4
55-1014	Artillery and Missile Officers			55-1014.00	Artillery and Missile Officers	3	4
55-1015	Command and Control Center Officers			55-1015.00	Command and Control Center Officers	3	4
55-1016	Infantry Officers			55-1016.00	Infantry Officers	3	4

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<b>SOC</b>	<b>SOC TITLE</b>	<b>O*NET 98</b>	<b>O*NET 98 (OU) TITLE</b>	<b>O*NET 3.0</b>	<b>O*NET 3.0 (O*NET-SOC) TITLE</b>	<b>DATA</b>	<b>link</b>
<b>CODE</b>		<b>(OU)</b>		<b>(O*NET-SOC)</b>		<b>AVAIL.</b>	
<b>CODE</b>		<b>CODE</b>		<b>CODE</b>			
55-1017	Special Forces Officers			55-1017.00	Special Forces Officers	3	4
55-2011	First-Line Supervisors/Managers of Air Crew Members			55-2011.00	First-Line Supervisors/Managers of Air Crew Members	3	4
55-2012	First-Line Supervisors/Managers of Weapons Specialists/Crew Members			55-2012.00	First-Line Supervisors/Managers of Weapons Specialists/Crew Members	3	4
55-2013	First-Line Supervisors/Managers of All Other Tactical Operations Specialists			55-2013.00	First-Line Supervisors/Managers of All Other Tactical Operations Specialists	3	4
55-3011	Air Crew Members			55-3011.00	Air Crew Members	3	4
55-3012	Aircraft Launch and Recovery Specialists			55-3012.00	Aircraft Launch and Recovery Specialists	3	4
55-3013	Armored Assault Vehicle Crew Members			55-3013.00	Armored Assault Vehicle Crew Members	3	4
55-3014	Artillery and Missile Crew Members			55-3014.00	Artillery and Missile Crew Members	3	4
55-3015	Command and Control Center Specialists			55-3015.00	Command and Control Center Specialists	3	4
55-3016	Infantry			55-3016.00	Infantry	3	4
55-3017	Radar and Sonar Technicians			55-3017.00	Radar and Sonar Technicians	3	4
55-3018	Special Forces			55-3018.00	Special Forces	3	4