

#### **Stanislaus County Workforce Development**

251 E. Hackett Road, Modesto, CA 95358 • www.stanworkforce.com • 209-558-2100 • 209-558-2164 fax

#### **Business Development Committee Agenda**

Thursday, December 7, 2023
Self-Help Credit Union
Community Room
900 Crows Landing Rd., Modesto, CA 95351
1:00 p.m. – 2:30 p.m.

The Business Development Committee complies with all provisions of the Brown Act and the Stanislaus County Workforce Development Board Conflict of Interest and Code of Conduct Policy. See links below.

https://oag.ca.gov/sites/all/files/agweb/pdfs/publications/brownAct2003.pdf https://www.stanworkforce.com/workforce-board/

The Agenda at each meeting allows for a public comment period, limited to 5 minutes. Public Comment forms are available at https://www.stanworkforce.com/workforce-board/

All meetings are conducted in English. Current COVID-19 protocols will be followed.

If you require assistance per the Americans with Disabilities Act, please notify Stanislaus County Workforce Development at (209) 558-2114, 48 hours in advance of the meeting.

Public notice of all Business Development Committee meetings are posted 72 hours in advance of the meeting on the webpage at https://www.stanworkforce.com/workforce-board/#committees.

- Call to Order and Introductions
- 2. Conflict of Interest
- 3. Public Comment Period
- 4. Department Report
  - A. Update
    - 1. HR Hotline Reports
    - 2. Stanislaus County Industries Dashboard Presentation David Campos, Workforce Analyst
    - 3. Annual Report Business Services pg 21-27
    - 4. Remote Work, Commute Times, Public Transportation Use, and Housing Trends in Stanislaus County
  - B. Business Services Update Eugene Garcia, Business Services Manager
    - 1. First Quarter Work Based Learning Statistics
    - 2. Business Expo Outcomes
    - 3. Sector Updates Chris Hancock
      - a. Agriculture
        - i. Farm Bureau Report
      - b. Healthcare
      - c. Manufacturing
      - d. Warehouse/Logistics
      - e. Construction
      - f. Underserved

- i. Stanislaus Equity Partners Report
- ii. Latino Chamber Report
- 5. Discussion and Action Item
  - A. Approval of the Minutes of the September 14, 2023 Business Development Committee Meeting
  - B. Approval of the 2024 Dates; Location and Times for the Business Development Committee Meetings
  - C. Consider the Request from Opportunity Stanislaus to Renew the Employer Assessment Contract (WorkKeys) for the 2023-2024 Fiscal Year
  - D. Approval to take to the Workforce Development Board the 2023 In-Demand Occupation List for Workforce Innovation and Opportunity Act and Request Authority for the Director of Stanislaus County Workforce Development to Make Exceptions as Necessary
- 6. Future Topics and Discussion

Next Quarterly Meeting:

Tentative upon approval of Agenda item 5.B.

Date: Thursday, March 7, 2024

Self-Help Credit Union Community Room 900 Crows Landing Rd., Modesto CA 95351

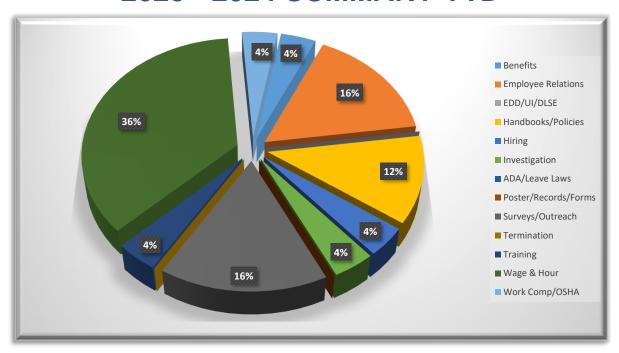
Time: 1:00 - 2:30 PM





**Stanislaus County Hotline Report** 

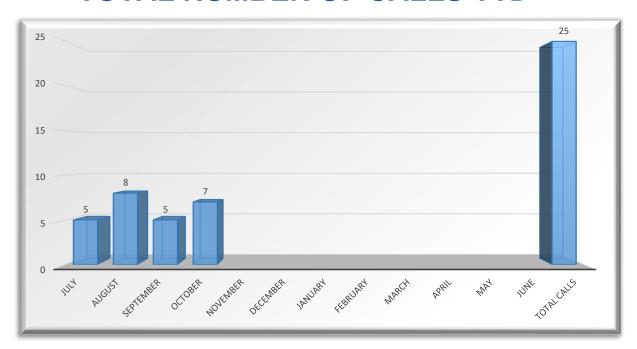
### 2023 - 2024 SUMMARY YTD



| Reason For Call        | July | August | September | October | November | December | January | February | March | April | May | June |
|------------------------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|
| Benefits               |      |        |           | 1       |          |          |         |          |       |       |     |      |
| Employee Relations     | 1    | 2      | 1         |         |          |          |         |          |       |       |     |      |
| EDD/UI/DLSE            |      |        |           |         |          |          |         |          |       |       |     |      |
| Handbooks/Policies     | 2    |        |           | 1       |          |          |         |          |       |       |     |      |
| Hiring                 |      | 1      |           |         |          |          |         |          |       |       |     |      |
| Investigation          |      | 1      |           |         |          |          |         |          |       |       |     |      |
| ADA/Leave Laws         |      |        |           |         |          |          |         |          |       |       |     |      |
| Poster/Records/Forms   |      |        |           |         |          |          |         |          |       |       |     |      |
| Surveys/Outreach/Other |      | 2      |           | 2       |          |          |         |          |       |       |     |      |
| Termination            |      |        |           |         |          |          |         |          |       |       |     |      |
| Training               |      |        | 1         |         |          |          |         |          |       |       |     |      |
| Wage & Hour            | 1    | 2      | 3         | 3       |          |          |         |          |       |       |     |      |
| Work Comp/OSHA         | 1    |        |           |         |          |          |         |          |       |       |     |      |
| TOTAL                  | 5    | 8      | 5         | 7       | 0        | 0        | 0       | 0        | 0     | 0     | 0   | 0    |



### **TOTAL NUMBER OF CALLS YTD**



| July        | 5  |
|-------------|----|
| August      | 8  |
| September   | 5  |
| October     | 7  |
| November    |    |
| December    |    |
| January     |    |
| February    |    |
| March       |    |
| April       |    |
| May         |    |
| June        |    |
| Total Calls | 25 |





# **Stanislaus County Hotline Report**

| Description                          | Caller Name   | Business Name   |
|--------------------------------------|---|---|
| Employee Relations<br>Handbook Query |   | Chino Valley Chamber<br>Wood Connections  |
| Policy Review Questions              |   | Youth for Christ Central Valley Round Table Pizza   |
| Wage/Hour                            |   | Cassle Garage Door Company  |
| Drug/Alcohol Issue                   |   | Lancaster Painting  |
| -                                    |   | Weldway Steel Fabrication Lancaster Painting  |
| Hiring Issue                         |   | Mejia Painting  |
| Investigation - Internal             |   | Green Eyes Manufacturing  |
| Lawsuit or Summons                   |   | Green Eyes Manufacturing  |
| •                                    |   | Youth for Christ Central Valley Wety Engineering  |
| Employee Relations                   |   | Cassle Garage Door Company  |
| Training Query                       |   | Rank Investigation  |
| <del>-</del>                         |   | California Rehabilitation   |
| •                                    |   | Cassle Garage Door Company  American Restoration  |
| Benefits                             |   | Creative Alternatives, Inc  |
| Courtesy call, Not In, Left Msg      |   | Modesto Nuts  |
| -                                    |   | California Rehabilitation SupHerb Farms   |
| -                                    |   | Youth for Christ Central Valley   |
| Wage/Hour                            |   | Central Valley Ag   |
| Wage/Hour                            |   | Modesto Nuts Baseball Club  |
|                                      | Employee Relations Handbook Query Policy Review Questions Safety Wage/Hour Drug/Alcohol Issue Employee Relations Employee Relations Hiring Issue Investigation - Internal Lawsuit or Summons Wage/Hour Wage/Hour Employee Relations Training Query Wage/Hour Wage/Hour Wage/Hour Benefits Courtesy call, Not In, Left Msg Policy Review Questions Wage/Hour Wage/Hour | Employee Relations Handbook Query Policy Review Questions Safety Wage/Hour Drug/Alcohol Issue Employee Relations Employee Relations Hiring Issue Investigation - Internal Lawsuit or Summons Wage/Hour Wage/Hour Employee Relations Training Query Wage/Hour Wage/Hour Wage/Hour Benefits Courtesy call, Not In, Left Msg Courtesy call, Not In, Left Msg Policy Review Questions Wage/Hour Wage/Hour Wage/Hour |





#### **Central Valley Hotline Report**

# 7/1/2023 - 6/30/2024 Summary of Calls



| County                    | July | August | September | October |
|---------------------------|------|--------|-----------|---------|
| Kern / Inyo / Mono County | 1    | 2      | 5         | 1       |
| Madera County             | 3    | 3      | 3         | 5       |
| Merced County             | 3    | 2      | 6         | 5       |
| Mother Lode Counties      | 1    | 3      | 4         | 0       |
| San Joaquin County        | 1    | 0      | 2         | 1       |
| Stanislaus County         | 5    | 8      | 5         | 7       |
| Tulare County             | 2    | 10     | 4         | 3       |
| TOTAL                     | 16   | 28     | 29        | 22      |

| Kern / Inyo / Mono County | 9  |
|---------------------------|----|
| Madera County             | 14 |
| Merced County             | 16 |
| Mother Lode Counties      | 8  |
| San Joaquin County        | 4  |
| Stanislaus County         | 25 |
| Tulare County             | 19 |
| Total Calls               | 95 |





# STANISLAUS COUNTY INDUSTRIES DASHBOARD

December 2023

COMMUNITY CAREER CONNECTION

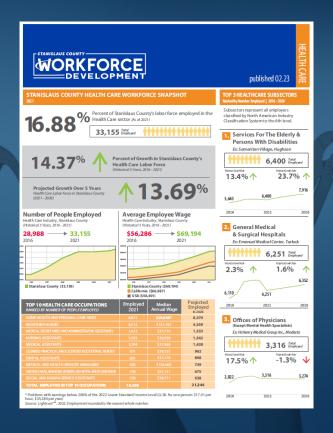
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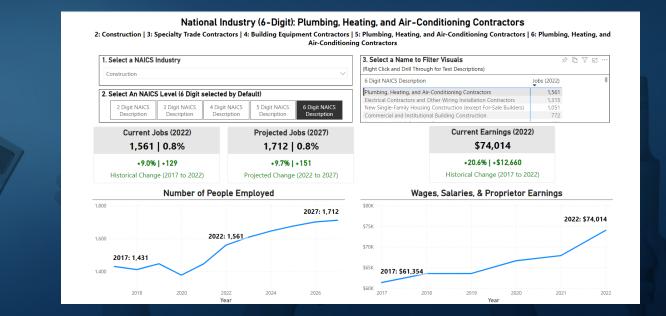
# **Based on Sector Strategy Infographics**

# STATIC FLYER



# **DYNAMIC DASHBOARD**





# DYNAMIC DASHBOARD KEY BENEFITS

# Infographics

Limited to 5 industries

Figures manually updated

Information separated by industry

No occupation/industry descriptions

Subsectors limited to 6-digit industry level

# **Dashboard**

Access to all industries

Raw data files updated (quicker update process)

Multiple industries can be selected

Access to occupation/industry descriptions

Access to all industry subsector levels

www.stanworkforce.com

# **Dashboard Overview**

### **Industry Overview Page**

Industry employment and earnings data

# Top 10 Occupations Page

- 10 occupations with the highest current employment for selected industries
- Occupational data current employment, current median earnings, and projected employment

### Top Subsectors Page

Industry subsector employment and earnings data

# **Dashboard Example: Questions**

Health Care and Social Assistance Industry

### **Dashboard Link**

### Questions to be answered:

- What is the projected growth for the "Health Care and Social Assistance Industry" over the next 5 years?
- What is the top occupation for the "Health Care and Social Assistance Industry"? Is this occupation projected to grow over the next 5 years?
- What is the top subsector of the "Health Care and Social Assistance Industry"? Is this subsector expected to grow over the next 5 years?



# Dashboard Example: Walkthrough

### **Industry Overview Page**

Step 1: Use the filter on the top left to select "Health Care and Social Assistance Industry"

### **Top 10 Occupations Page**

Industry was selected on prior page. No action needed.

## **Top Subsectors Page**

Step 1: Confirm "Health Care and Social Assistance Industry" is selected

Step 2: Select 6-Digit NAICS Industry Level (2-Digit is broadest and 6-Digit is

most specific)

Step 3: Select subsector to update page visuals



# **Dashboard Example: Answers**

# Health Care and Social Assistance Industry

- What is the projected growth for the "Health Care and Social Assistance Industry" over the next 5 years?
  - 14.4% Growth From Industry Overview Page
- What is the top occupation for the "Health Care and Social Assistance Industry"? Is this occupation projected to grow over the next 5 years?
  - "Home Health and Personal Care Aides", Employment expected to grow by 1,827 – From Top 10 Occupations Page
- What is the top subsector of the "Health Care and Social Assistance Industry"? Is this subsector expected to grow over the next 5 years?
  - "Services for the Elderly and Persons with Disabilities", Jobs in subsector expected to grow by 26.1% From Top Subsectors Page



# **COMMENTS?**



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COMMUNITY CAREER CONNECTION

www.stanworkforce.com



# REMOTE WORK, COMMUTE TIMES, PUBLIC TRANSPORATION USE, AND HOUSING TRENDS IN STANISLAUS COUNTY

September 20, 2023

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Phone: (209) 558-3562







#### Introduction

This report is based on the University of the Pacific's Center for Business and Policy Research Report on COVID-19 and Residents' Journey to Work in San Joaquin County.

The following report utilizes Census American Community Survey (ACS) 1-Year Estimates data for 2017, 2018, 2019, 2021 and 2022. Data is focused on identifying trends in remote work, commute time to work, and share of population using public transportation.

#### How was Remote Work Impacted in Stanislaus County?

The share of workers working from home more than doubled after the onset of the pandemic. The percentage of people working from home increased from 3.9% in 2019 to 8.7% in 2021. In 2022, it slightly lowered to 7.2% of people working from home.

#### How were Commute Times Impacted in Stanislaus County?

Commute times remained constant, decreasing from 31.7 minutes in 2019 to 31.4 minutes in 2021. In 2022, commute times dropped by 1.1 minutes to 30.3 minutes.

#### How was Public Transportation Use Impacted in Stanislaus County?

Stanislaus County public transportation use returned to pre-pandemic levels of use from 0.4% in 2019 to 1.0% in 2021 and 2022. Overall, public transportation use remains low compared to California as a whole.

#### How was Housing Impacted in Stanislaus County?

Stanislaus County typical home values and market rate rents continued on an upward trend from March 2020 to July 2022. Typical home values were \$333,512 in March 2020 with a peak of \$471,463 in July 2022. Market rate rent was \$1,488 in March 2020, with a peak of \$1,948 in August 2022.





#### I. Remote Work (Percent of People Working from Home)

#### Ia. Remote Work (Stanislaus County)

Pre-pandemic there was a decline in remote work from 5.5% in 2018 to 3.9% in 2019. The share of workers working from home more than doubled after the onset of the pandemic. Remote work has remained above pre-pandemic levels, with 7.2% of workers working from home in 2022.

#### **Percent of People Working From Home in Stanislaus County**

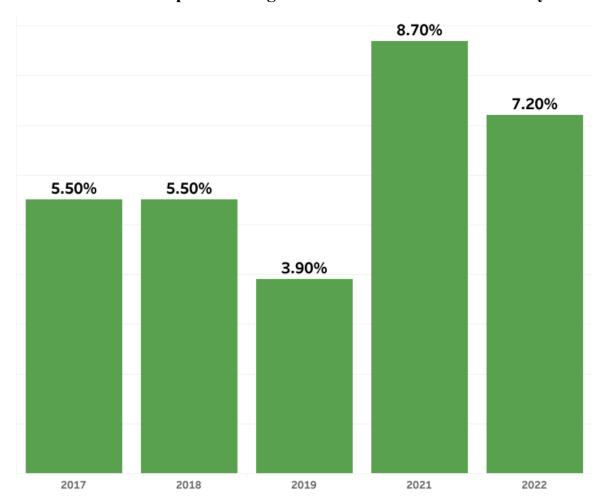


Figure I.1: Percent of People Working from Home in Stanislaus County





#### Ib. Remote Work by County (Stanislaus, Merced, San Joaquin)

Stanislaus County maintained a 5.5% remote work population from 2018 to 2019, only 0.5% less than statewide levels. However, Stanislaus County alone experienced a drop in remote work to 3.9% in 2019.

After the onset of the pandemic, remote work increased across all counties. Despite Stanislaus County remote work increasing to 8.7%, it was still 12.7% below the statewide rate of 21.4%. Notably, none of the counties selected matched the statewide level of remote work.

In 2022, all areas experienced a decrease in remote work. However, remote work rates remained significantly above pre-pandemic levels.

#### **Percent of People working From Home by County**

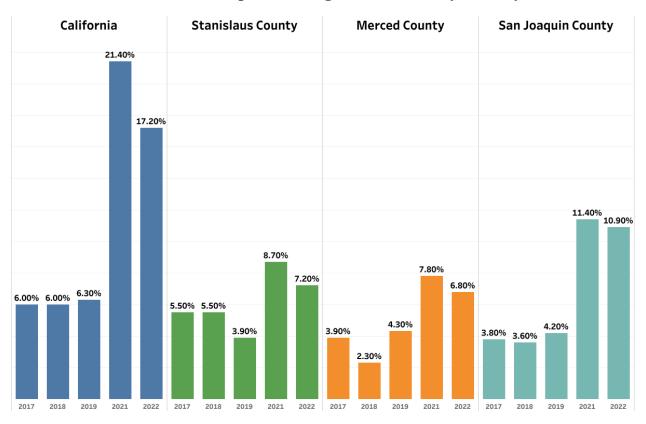


Figure I.2: Percent of People Working from Home by County





#### Ic. Remote Work by Stanislaus County Cities (Modesto, Turlock)

Modesto nearly tripled the percent of people working from home between 2019 and 2021, from 3.1% in 2019 to 8.9% in 2021. Turlock more than doubled in the same time frame, from 3.7% in 2019 to 8.1% in 2021.

In 2022, both cities experienced a decrease in the percent of people working from home. However, Turlock experienced a 2.5% decrease, while Modesto experienced a 1.2% decrease.

#### **Percent of People Working From Home in Stanislaus County Cities**

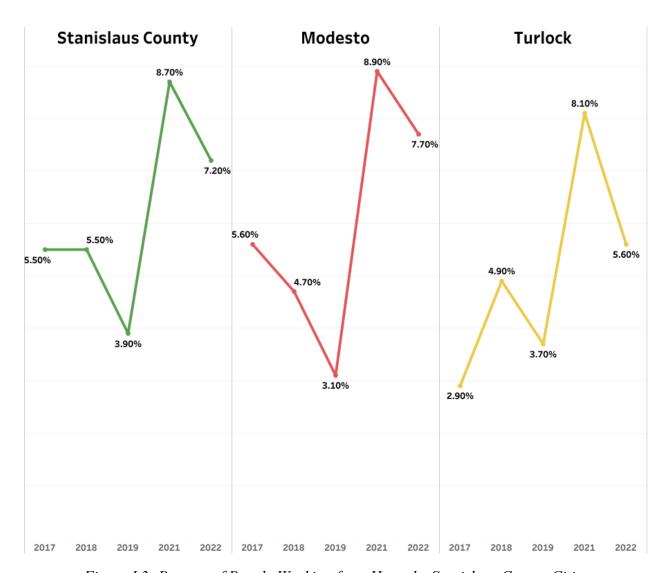


Figure I.3: Percent of People Working from Home by Stanislaus County Cities





#### II. Average Commute Time (Minutes)

#### IIa. Average Commute Time (Stanislaus County)

The average commute time to work remained fairly constant in Stanislaus County, dropping from 31.7 minutes in 2019 to 31.4 minutes in 2021. There was a 1.1 minute decrease in commute times from 2021 to 2022.

#### **Mean One-Way Commute Times in Minutes (Stanislaus County)**

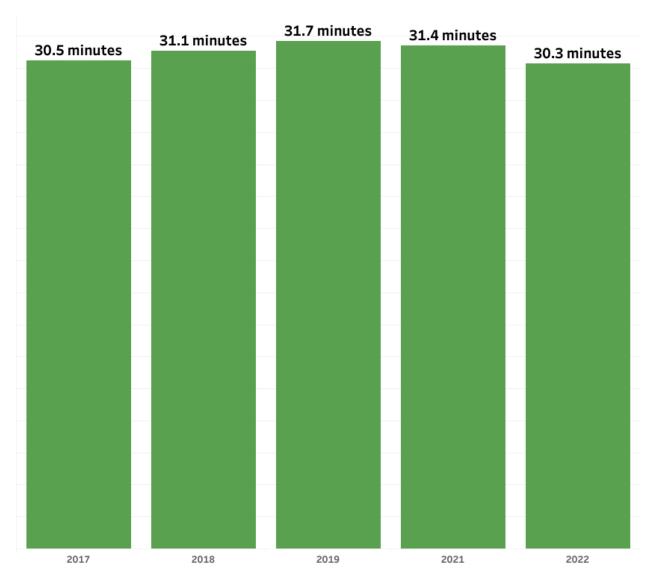


Figure II.1: Average Commute Time to Work for Stanislaus County





#### IIb. Average Commute Time by County (Stanislaus, Merced, San Joaquin)

Although Stanislaus County mirrored statewide trends, it did not have as large of a decrease in average commute time compared to the state. Stanislaus County commute times were lower in 2021 compared to other nearby counties.

In 2022, trends vary by region. San Joaquin County mirrored the statewide trend with average commute time increasing by 0.5 minutes. Both Stanislaus County and Merced County had decreases in average commute times. However, Merced County times decreased by 4.1 minutes while Stanislaus County times decreased by 1.1 minutes.

#### Mean One-Way Commute Times in Minutes by County

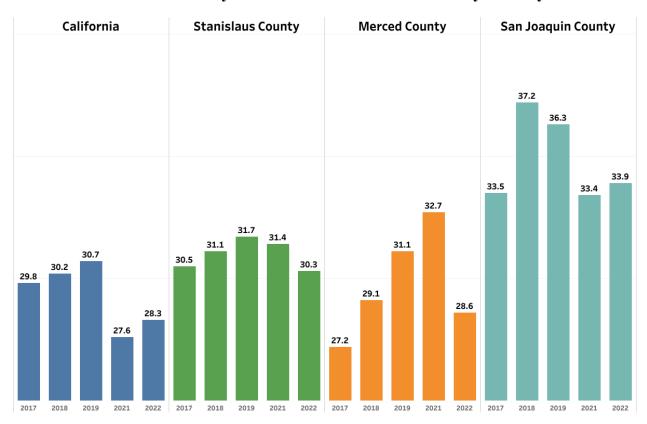


Figure II.2: Average Commute Time to Work by County





#### IIc. Average Commute Time by Stanislaus County Cities (Modesto, Turlock)

Turlock commute times have consistently remained lower than Modesto commute times.

Modesto commute times considerably increased from 28.2 minutes in 2019 to 32 minutes in 2021. Alternatively, Turlock saw a considerable decrease in commute times from 26.6 minutes in 2019 to 24.8 minutes in 2021. This could be linked to the increase in public transportation use for Modesto compared to Turlock.

In 2022 both cities returned closer to their pre-pandemic levels with a 3.5 decrease in Modesto average commute times and a 1.4 increase in Turlock average commute times.

#### Mean One-Way Commute Times in Minutes by Stanislaus County Cities

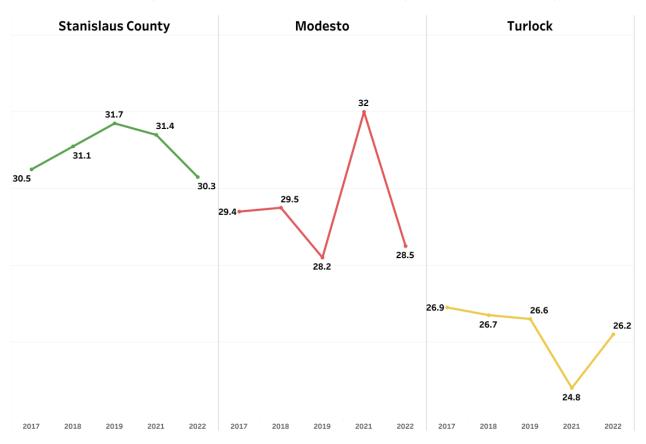


Figure II.3 Average Commute Time to Work by Stanislaus County Cities





#### III. Public Transportation Use

#### IIIa. Public Transportation Use by County (Stanislaus, Merced, San Joaquin)

Stanislaus County public transportation use did not follow California trends. Stanislaus County was the only County with an increase of use in 2021, from 0.4% in 2019 to 1.0% in 2021.

Overall, Stanislaus County public transportation use remains low compared to California with no change from 2021 to 2022.

#### Percent of People Commuting Via Public Transportation by County

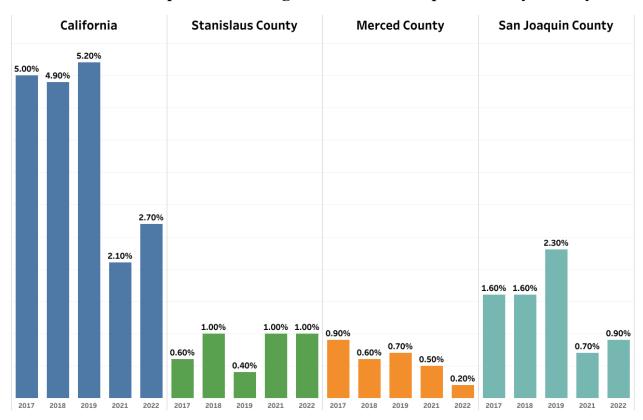


Figure III.1: Percent of People Commuting Via Public Transportation by County





#### IIIb. Public Transportation Use by Cities (Modesto, Turlock)

Modesto had seven times more public transportation use between 2019 and 2021, from 0.2% in 2019 to 1.4% in 2021. Turlock followed statewide trends with a decrease in public transportation use. However, the impact was more drastic for Turlock with use decreasing from 1.4% in 2019 to 0.2% in 2021.

Trends from 2019 to 2021 continued in 2022. Modesto's upward trend continued with a 0.9% increase, while Turlock's downward trend continued with a 0.2% decrease.

#### Percent of People Commuting Via Public Transportation in Stanislaus County Cities

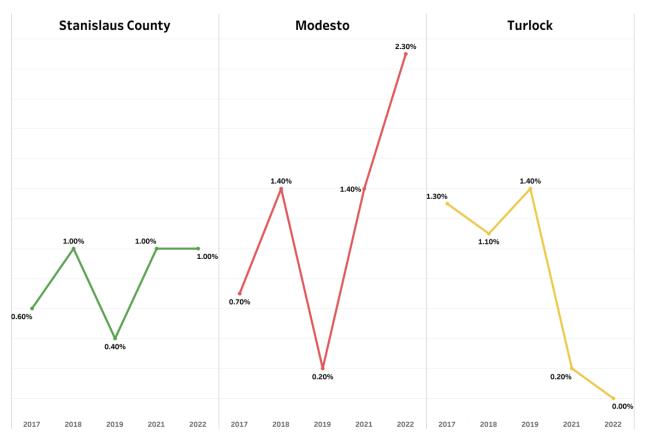


Figure III.2: Percent of People Commuting Via Public Transportation by Stanislaus County Cities





#### IIIc. Stanislaus Regional Transit Authority (StanRTA) Ridership in Thousands

Data Note: The data items are reported as the number of unlinked passenger trips. Unlinked passenger trips are defined as the number of passengers who board public transportation vehicles. Passengers are counted each time they board vehicles no matter how many vehicles they use to travel from their origin to their destination.

StanRTA ridership was on an upward trend from 70,900 trips in January 2021 to 227,200 trips in October 2022. Ridership experienced a steep decline from 227,200 trips in October 2022 to 172,500 trips in December 2022. 2022 ridership by month has remained above 2021 levels of ridership for the same month.

# Stanislaus Regional Transit Authority (StanRTA) Ridership in Thousands 2022 vs 2021

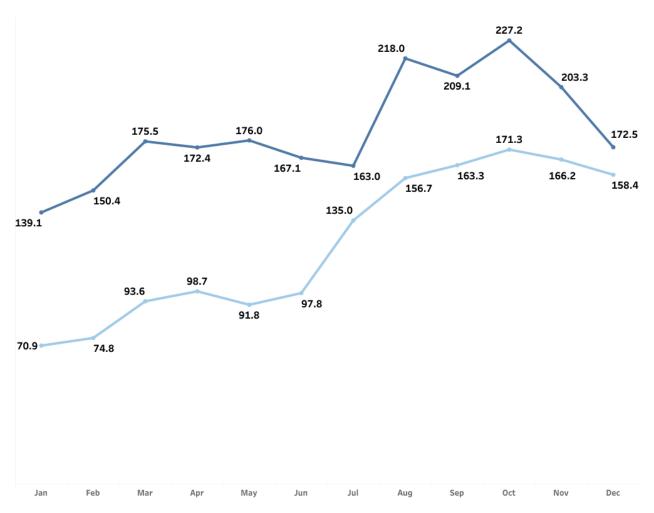


Figure III.3: Stanislaus Regional Transit Authority (StanRTA) Ridership in Thousands

(Source: American Public Transportation Association (APTA) Ridership Reports)





#### IV. Housing Trends (Home Value, Rent, Jobs to Housing Ratio)

#### IVa. Stanislaus County Home Value

Stanislaus County typical home values have been on an upward trend since December 2011. Typical home values were \$333,512 in March 2020 with a recent peak of \$471,463 in July 2022.

#### Stanislaus County Typical Home Value (Homes in 35th to 65th Percentile)

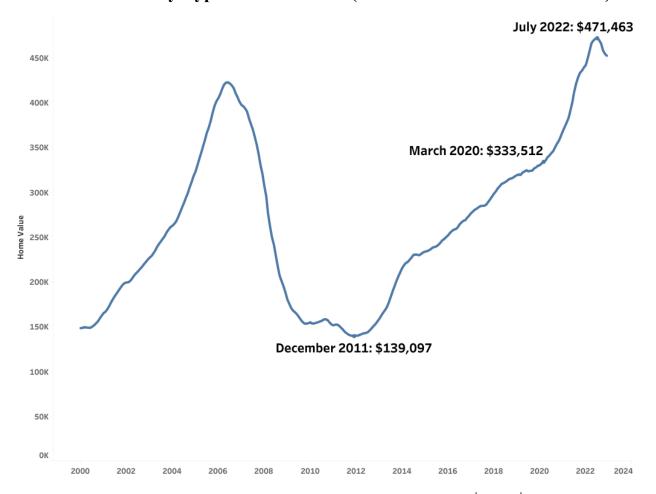


Figure IV.1: Stanislaus County Typical Home Value (Homes in  $35^{th}$  to  $65^{th}$  Percentile)

(Source: Zillow Home Value Index)





#### IVb. Stanislaus County Market Rate Rent

Stanislaus County market rate rent has continued in a upward trend since March 2015. Market rate rent was \$1,488 in March 2020, with a recent peak of \$1,948 in August 2022.

#### Stanislaus County Market Rate Rent (Rents in 40<sup>th</sup> to 60<sup>th</sup> Percentile)

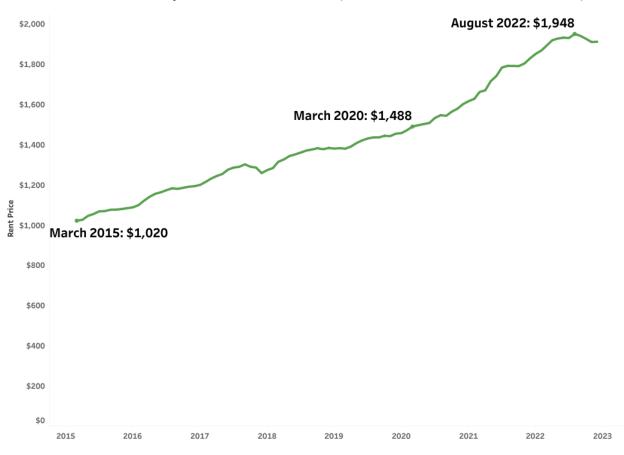


Figure IV.2: Stanislaus County Market Rate Rent (Rents in 40<sup>th</sup> to 60<sup>th</sup> Percentile)

(Source: Zillow Observed Rent Index)





#### IVc. Stanislaus County Jobs to Housing Ratio

A jobs to housing ratio of above 1.5 indicates that many workers likely commute into the area, whereas a score of less than 0.75 indicates that many workers likely commute out of the area. Stanislaus County Jobs to Housing Ratio has remained relatively constant with values of 1.16 in 2017 and 1.19 in 2022.

#### **Stanislaus County Jobs to Housing Ratio**

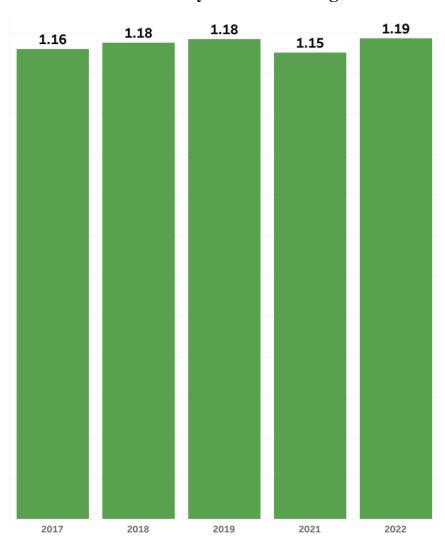


Figure IV.3: Stanislaus County Jobs to Housing Ratio

(Source: Jobs – Lightcast, Housing – Census ACS 1-Year Estimates)





#### References

University of the Pacific, Center for Business and Policy Research. (2023). COVID-19 and Residents' Journey to Work in San Joaquin County. <a href="https://www.pacificcbpr.org/wp-content/uploads/2023/01/JrntoWrk">https://www.pacificcbpr.org/wp-content/uploads/2023/01/JrntoWrk</a> CBPRSpotlight 2023.pdf

- U.S. Census Bureau, 2017 ACS 1-year (DP03 Table). https://data.census.gov/.
- U.S. Census Bureau, 2018 ACS 1-year (DP03 Table). https://data.census.gov/.
- U.S. Census Bureau, 2019 ACS 1-year (DP03 Table). https://data.census.gov/.
- U.S. Census Bureau, 2021 ACS 1-year (DP03 Table). https://data.census.gov/.
- U.S. Census Bureau, 2022 ACS 1-year (DP03 Table). https://data.census.gov/.

Zillow, Zillow Home Value Index (ZHVI) – Smoothed, Seasonally Adjusted, All Homes (SFR, Condo/Co-op) Time Series. <a href="https://www.zillow.com/research/data/">https://www.zillow.com/research/data/</a>

Zillow, Zillow Observed Rent Index (ZORI) - Smoothed, All Homes Plus Multifamily Time Series. <a href="https://www.zillow.com/research/data/">https://www.zillow.com/research/data/</a>





# Agriculture Sector Partnership – Workforce Development Subsector Meeting & Sector Meeting Recap

Subsector Meeting, Agenda below:

Agriculture Sector Partnership – Workforce Development

Subsector: Nut Industry

Agenda: July 18, 2023 : 3:00-4:00pm

• *3:00-3:10pm : Introductions* 

• 3:10-3:20pm : What is Workforce Development & Farm Bureau Partnership

3:20-3:50pm: Group Discussion

• 3:50-4:00pm : Next Steps and Closing

#### **New Hires**

- 1. What type of positions do you have in your operation?
- 2. Did you have trouble filling any positions last season? If yes, then what positions?
- 3. What qualities/abilities do you look for in an applicant?
- 4. Are recent hires lacking any training/skills/abilities that you expected them to have, like soft skills?

#### **Current Employees**

- 5. Have there been any changes or updates in equipment or technology that required you to retrain current employees? If yes, then what have been those updates?
- 6. Is there any kind of training you would like to see available for newly promoted employees? (Communication, reporting, employee management, etc.)
- 7. Are there any training or employee development opportunities that you would like, but they have been too expensive?
- 8. Are there any certifications or certificate programs that would help, or are required, for an employee to be promoted?

#### Attendance:

Farm Bureau did a data request from the Stanislaus County Agricultural Commissioner to obtain a list of all of the non-ag permits in their system, a permit type required by Nut Processors. Thirty-five processors were invited to the meeting. Grower Direct was the only processors to attend, along with Workforce Development, Farm Bureau and the Almond Board. See below for a copy of the sign in sheet.

#### Workforce Development 7/18/2023

**Sub-Sector Meeting: Nut Industry** 

| #   | Name               | Company              | Email               | <b>Phone Number</b>       |
|-----|--------------------|----------------------|---------------------|---------------------------|
| 1 1 | Parnelle Anthreth' | Antinetti Consulting | Vantinetti @gmail.  | on 209.585.792            |
| 2 / | This Hancock       | Workforce Dev.       | harcocke @ stanword | clorce. 209-581-6522      |
| 34  | minim 26/10        | MAD                  |                     |                           |
| 45  | eny Nicolas        | Almord board offA    | micolav@almord      | 209-3248 1 (201) 542-3524 |
| 5   | jz Camillo         | Grower Treet Mut     | Lize against con    | 1 (201) 542-3526          |
| 6   |                    |                      | J                   |                           |
| 7   |                    |                      |                     |                           |

#### Meeting Notes:

While attendance was small, it allowed for frank conversation in regards to current challenges with the workforce.

#### Challenges identified by Grower Direct:

- Basic job skills needed, ie. Showing up on time
- Forklift operators versus forklift drivers (operators can trouble-shot, assess hazards, make changes in real-time based on changes in the environment)
- Machine operators are needed
- Learning new software (there are changes to software annually)
- Basic computer skills, ie. Knowing how to navigate a tablet in the field/warehouse
- Supervisory skills, ie. Coaching, managing labor needs, taking ownership of projects, how their decisions in operations play a large role in the impact to the company (Lean Six Sigma Black Belt Certification and Supervisory Development Program (SDA) was discussed here)
- Knowing how to use MS Excel

#### **Next Steps:**

- Grower Direct reached out to Farm Bureau to sign up almost 40 employees for SDA. Anna connected them with Chris Hancock, Workforce Development, and Theresa Kiehn, AgSafe. Grower Direct plans to utilize Incumbent Worker Training funds to work directly with AgSafe to provide an inhouse SDA for just their employees.
- While forklift operator training does not qualify for incumbent work training, we discussed a warehouse logistics training that could include: equipment training (specific to the industry, possibly bring in a trainer from the vendor), software training (this is upgraded annually), product knowledge and Lean Training ideas.

#### Agriculture Sector Partnership – Workforce Development

Agenda: November 9th: 2023: 8am to 10am

Farm Bureau BOD: 1201 L Street, Modesto, Ca

- 8:00-8:15am:
  - Introductions
- 8:15-8:45am:
  - Anna provides updates:
    - Supervisory Develop Academy 2024
    - Subsector Meeting
    - Incumbent Worker Training in Action
- 8:45-9:45am:
  - Break Out, By Industry
    - Build an Incumbent Worker Training that meets your needs
- 9:45-10:00am: Groups Report Back and Closing
- Supervisor Development Academy in 2024
  - o 20 spots in each class
  - Scheduled for Thursdays:
    - English 7:30 a.m. 11:30 a.m.
    - Spanish 12:00 p.m. 4:00 p.m.
      - o March 7
      - o March 21
      - o April 4
      - o April 18
      - o *May 2*
- o Please communicate with Anna, annag@stanfarmbureau.org, to register your employees.

#### Attendance:

#### Ag Sector Committee Meeting: 11/9/2023

|    | Name             | Company                               | Sign in |
|----|------------------|---------------------------------------|---------|
| 1  | Abi Fair         | Farm Bureau                           | yes     |
| 2  | Anna Genasci     | Farm Bureau                           | yes     |
| 3  | Barbara Alley    | NuWest Milling                        | yes     |
| 4  | Caitie Diemel    | Farm Bureau                           | yes     |
| 5  | Chris Hancock    | Stan Co Workforce Development         | yes     |
| 6  | Darrell Cordova  | Farmer                                | yes     |
| 7  | Derek Veneman    | Dairy                                 | yes     |
| 8  | Doris Foster     | Stan Co Workforce Development         | yes     |
| 9  | Emily Lawerence  | MJC                                   | yes     |
| 10 | Jennifer Dickey  | CR Orchards                           | yes     |
| 11 | Joshua Lane      | Lean Farmers                          | yes     |
| 12 | Justin Elam      | Blue Diamond                          | yes     |
| 13 | Kari Santos      | IJ Larsen Pumps                       | yes     |
| 14 | Kris Helton      | BBSI                                  | yes     |
| 15 | Linda Pinfold    | Stan Co Ag Comm                       | yes     |
| 16 | Lori Marchy      | MJC                                   | yes     |
| 17 | Mark Tanksley    | A.L. Gilbert Co.                      | yes     |
| 18 | Rory White       | Select Sires                          | yes     |
| 19 | Ryan Amaral      | MJC                                   | yes     |
| 20 | Scott Kuykendall | Stanislaus County Office of Education | yes     |
| 21 | Theresa Keihn    | AgSafe                                | yes     |
| 22 | Tim Roos         | Nursery                               | yes     |
| 23 | Tom Orvis        | Farm Bureau                           | yes     |
| 24 | Trent Voss       | Blue Diamond                          | yes     |
| 25 | Vance Ahlem      | Dairy                                 | yes     |

#### Meeting Notes:

Anna Genasci, Stanislaus County Farm Bureau, provided an overview (see slides below) of year ONE of the Sector Partnership and the activity for the day, focusing on incumbent worker training. Chris Hancock, Workforce Development, provided a quick overview of the incumbent worker training program requirements.

# Stanislaus County Workforce Development

### Agriculture Sector Partnership Update

#### Presented By:

Anna Genasci Stanislaus County Farm Bureau





#### WORKFORCE DEVELOPMENT



ONLY ONE YEAR INTO THE PROGRAM!

#### FALL MEETING TAKE-AWAYS

#### **Overall Themes:**

- Supervisor/leadership training for newly promoted employees
- Computer skills, including Microsoft programs
- Database management and input
- English literacy
- Certifications: Equipment, Pesticides, Class A drivers & technology
- Customer service, working in a team, and soft skills
- Compliance; updates on trainings and requirements (HR and Safety)



#### **New Hire Soft Skills Deficiencies:**

- Lack of written communication skills (poor grammar, spelling, sentence structure, etc.)
- Lack of verbal communication skills (eye contact, speaking clearly and distinctly, being able to introduce one's self)
- Timeliness both showing up to work and appointments (in-person and virtual) on time, as well as completing assigned
  work on time.
- Staying motivated and persevering when encountering obstacles (not giving up or trying to move the hard work to someone else).
- · Managing stressful situations without quitting

#### **DELIVERABLES**

Agricultural Supervisory Development Academy (SDA) Update:

- The Spring 2023 sessions were full.
- Two cohorts, one in English and one in Spanish,
   received 20 hours of training beginning April 2023.
- Each cohort had 20 participants.
- Each in-person session was 4 hours with 1-2 hours of activities to practice new skills on the job along with small homework assignments.



## **GRADUATION**













## SPRING MEETING TAKE-AWAYS

- o Orange Group Computer Skills & Working with a Database
  - o Two key takeaways Database and Excel training needed
- o Pink Group Certifications; Equipment & Pesticides
  - Two key takeaways Agriculture specific on-boarding training modules and a list of required trainings are needed
- o Green Group Customer Service (including phone etiquette) & Teamwork
  - o Two key takeaways training for supervisors to coach employees and a "part 2" for SDA graduates
- o Blue Group English & Spanish Literacy, Ag Specific
  - Two key takeaways there is an interest from Spanish speakers to learn English and English speakers to learn Spanish and translations services in the interim would be helpful



## **NEXT STEPS - YEAR 2**

- o Work on growing the sector group for the next contract year.
- o Create Needed Incumbent Worker Training Programs.
- o Hear from this group!
- o Offer Supervisor Development Academy in 2024
  - Thursdays: English 7:30 a.m. 11:30 a.m. / Spanish 12:00 p.m. 4:00 p.m.
  - March 7
  - March 21
  - April 4
  - April 18
  - May 2

For the good of your food.

# INCUMBENT WORKER TRAINING IN ACTION - ACTIVITY

- Consider the following items:
  - · Work-based training and upskilling
  - Cost reimbursement (employer pays full cost of training upfront)
  - Employee and Employer Eligibility
- Examples to get you thinking...
  - Field Scout promoting into a PCA
  - · Technology Rep training team on new equipment
  - Train the Trainer
  - What else ....



Activity Notes (participants were broken into groups by industry, supporting partners were asked to join a group of their choice):

#### Blue Diamond Group:

- Train the Trainer programs
- Train employees and reduce the need for outside contractors
- Apprenticeship programs and OJT Mentorships
- Looking for both internal and community trainings
- Best time of year for training, before almond harvest

## Dairy Group:

- Vet technician, lack of large animal vets
- AI (artificial insemination) Breeders
  - o Embryo transfer
  - o LEAH Low energy animal handling
- Robotics training
  - New tech for milking
  - o Help with training costs on new equipment, bring in vendor
- Is there opportunity to plug into current Modesto Junior College classes?
  - You have to practice on actual cows
  - o Mechanics needed, dairy specific
- Best time of year for training, year round

## **Grower Group:**

- Equipment Operators, not just drivers
- Junior Mechanic to Senior Mechanic, in house training
- Pesticide certification
- Trainings in both English and Spanish
- Food Safety certification

## **Pump Installation Group:**

- Service technician to Foreman, in house training
- Administration support, financial focus, MS Excel, accounting software
- Office Assistant to Office Manager; working with vendors, regulatory compliance, MS Office
- Logistics: understanding the software, fleet management, mapping and documentation
- Human resources specific for agricultural employers

### Feed Mill Installation Group:

- Certification and licensing
- OJT for our specific equipment, general skills vs occupational skills
- Understanding of compliance needs with Milling Industry

## Next Steps:

- Work on growing the sector group for the next contract year
- Create Needed Incumbent Worker Training Programs
- Offer Supervisor Development Academy in 2024
  - o Thursdays: English 7:30 a.m. 11:30 a.m. / Spanish 12:00 p.m. 4:00 p.m.
    - March 7
    - March 21
    - April 4
    - April 18
    - May 2
  - o Email was sent to Sector Group for registration, to date, we have two people registered, 38 spots remain
- Subsector Group Meeting scheduled for January of 2024
- Second Sector Meeting scheduled for April of 2024



# Stanislaus County Workforce Development Underserved Businesses Sector Strategy

"Stan Partnerships in Action, Unifying Businesses, Building Prosperity"

Stanislaus Equity Partners hosted the first of two listening sessions for the underserved business sector strategy work on Tuesday, September 26 from 5:30-7:30pm in downtown Modesto. Our outreach included social media posting, in-person, flyer outreach (350) and email blasts. Many partners also shared our information on their communications.

We followed an empathy interview guide for the facilitated discussion during the table break outs with 2-4 business owners at the tables. The main topics that were discussed as needs for business owners were access to capital, development of entrepreneurship mentorship / networking, and needing a roadmap of business services and contacts in our community.

- We had over 30 attendees including our staff, volunteers and supporting partners.
- · We had 12 businesses show up.
  - Community service, professional services, marketing, automotive, retail and food industry businesses.
- We had 23 RSVPS.
  - Actual businesses: 19
- STEP Notes + Observations
  - Clearer understanding of the point of the sessions. Be relevant for everyday entrepreneur.
  - Turn out: Could be better offer incentives for more people to come to the next session? GC?

## Our agenda was as follows:

5:30 pm: Quick Welcome

5:40 pm: Official Welcome & Format

5:50 pm: County Workforce Development Presentation

Mariana Fonseca, Business Services Representative, SCWD

6:00 pm: Table Break Outs

7:00 pm: Share Out/Recap (Notetaker/business owners share high level themes)

Chris to make a guick announcement thanking partners; MH to translate in

Spanish.

7:20 pm: Next Steps - Evaluation Form & Invitation to Participate in Future Sessions &

Planning

7:30 pm: Close

**Next steps:** From the listening sessions we will come up with business owner needs topics for three workshops. Our first workshop will focus on access to capital with a business loan readiness workshop on Tuesday, Dec. 5<sup>th</sup> at the City of Ceres Community Center at 5:30pm. The next listening session is planned to be held the last week of January 2024 or early February 2024. A committee of business owners is being gathered to assist in the planning and outreach for the second listening session.



## **Stanislaus County Workforce Development**

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# Business Development Committee Meeting Minutes

Thursday, September 14, 2023
Self-Help Credit Union
900 Crows Landing Rd., Modesto, CA 95351
1:00 p.m. – 2:30 p.m.

Members in attendance:

Kris Helton, Chair Tim Roos

Billy Meyers Christine Schweininger Dillon Olvera Jennifer Shipman

Absent:

Jack Deliddo Jason Maggard Shawn Hemiller Maryn Pitt

Staff in attendance:

Doris Foster Eugene Garcia Chris Hancock Fauzia Ali

## Additional guest present:

Fred Rasuli, Barrett Business Services, Inc. (BBSI)
Jonathan Raymond, Barrett Business Services, Inc. (BBSI)
Trevin Barber, Economic Development Manager, City of Modesto

#### I. Call to Order and Roll Call

Kris Helton, Business Development Committee Chair, called the meeting to order at 1:01 p.m., thanked everyone for attending and invited those present to introduce themselves.

#### II. Conflict of Interest

Chairman Helton outlined the Conflict of Interest Policy.

## III. Presentation

A. Fred Rasuli and Jonathan Raymond from Barrett Business Services, Inc. gave a presentation on the upcoming Central Valley Business Expo being held in November.

#### IV. Public Comment Period

Chairman Helton gave information on the Public Comment Period. There were no public comments.

## V. Director's Report

Director Foster reviewed the following quarterly reports with the Committee:

- HR Hotline Director Foster reviewed the reports for July and August 2023. She added that there is a meeting this week with other counties to discuss how the HR Hotline can be better marketed to additional businesses.
- 2. WorkKeys Director Foster reviewed the Workkeys testing results for the period of April to June 2023. She also noted that it will be on the December agenda for voting if the Committee would like to continue the contract for the remainder of the fiscal year.
- 3. Stanislaus Equity Partners Business Services Supervisor, Chris Hancock, provided history and overview of the old contract. He reviewed the new contract, and shared that going forward Stanislaus Equity Partners will be holding Underserved Sector Meetings, providing three workshops that meets the identified needs of businesses and complete a survey of all of the businesses that received a grant during the COVID-19 pandemic.

## A. Business Services Update

Business Services Manager, Eugene Garcia, Business Services Manager, reviewed the following with the Committee:

1. Update on Programs – Eugene reviewed the report on Work-Based Learning activities for the period 4/1/23 – 6/30/23 compared to 7/1/23 to current. These services include WIOA services, services provided to businesses, and StanWORKS Services. Eugene added that one of the participants from the maintenance manufacturing machinist preapprenticeship program was selected from multiple participants within the region to participate in the California Community College Association for Occupational Education. He participated on a four-person panel to talk about his experience with the program. Mr. Garcia added that MJC will be paying for all of his travel expenses.

## 2. Sector Updates

Chris Hancock, Business Services Supervisor, reviewed the following with the Committee:

- a. Agriculture Sector The new contract is still with the Farm Bureau. In addition to doing two sector meetings there will also be sub-sector collaborations. One meeting was already held with the nut growers and nut processors on July 18<sup>th</sup>. Chris provided a brief overview of the meeting. The next Ag sector meeting is November 9<sup>th</sup>.
- b. Healthcare Sector Healthforce Partners of San Joaquin County is the convening authority. Chris stated that many of the private health partners are being brought in as well as MJC. Program expansion and career pathways with Modesto City Schools and Stanislaus State are being discussed. They are currently working on a multi-partner region wide ten-million-dollar grant proposal for nursing expansion and also a new initiative focus on expanding opportunities for local residents who enter training programs leading to careers in behavioral health.

c. Underserved Sector – We have a new contract with Stanislaus Equity Partners. Currently there are two sector meetings scheduled with the first one being held on Sept 26<sup>th</sup>. Chris added that the contract states that STEP must hold 3 workshops within the length of the contract, and he outlined the requirements of those workshops. Lastly, he stated that there are currently 15 businesses that have responded to attending the September meeting, the goal is to have 50-60 businesses attend.

#### VI. Consent Item

A. Approve the Minutes of the June 1, 2023 Business Development Committee Meeting. J. Shipman/T. Roos

## VII. Discussion and Action Item

Approval of Stanislaus County Workforce Development (SCWD) to Provide Business Intelligence Reports, Based on Labor Market Information Sources, to Businesses in Stanislaus County. C. Schweininger/J. Shipman with the addition of Occupational Wage Analysis and a list of Vocational Training Providers.

VIII. Future Topics and Discussion
Kris Helton requested a report on the Business Expo.

## IX. Adjournment

Chairman Helton adjourned the meeting at 2:29 p.m.

Next Meeting: December 7, 2023



## **Stanislaus County Workforce Development**

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### **December 7, 2023**

Stanislaus County Business Development Committee Agenda Item

**TO:** Business Development Committee

**FROM:** Doris Foster, Director

### SUBJECT:

Approval of the 2024 Dates; Location and Times for the Business Development Committee Meetings

**ITEM NUMBER**: 5.B.

ITEM TYPE: Discussion and Action

### STAFF RECOMMENDATION:

Approve the 2024 dates, location, and times for the Business Development Committee meetings.

#### **POLICY:**

The Stanislaus County Workforce Development Board's (SCWDB) Bylaws state that the Board shall establish a regular meeting schedule.

## **DISCUSSION:**

The Stanislaus County Workforce Development Board's (SCWDB) Bylaws state that the Board shall establish a regular meeting schedule. As such, the Business Development Committee is required set and approve a regular meeting schedule.

At the September 23, 2021 Business Development Committee meeting, Workforce Development staff recommended the Committee schedule quarterly meetings prior to each Stanislaus County Workforce Development Board meeting. The meetings are scheduled to take place in March, June, September, and December of 2024. The recommended meeting dates for 2023 are the first Thursday of the month as indicated in the table below:

| Date              | Time              | Location                                |
|-------------------|-------------------|---|
| March 7, 2024     | 1:00 pm – 2:30 pm | Self-Help Credit Union Community Room   |
|                   |                   | 900 Crows Landing Rd., Modesto CA 95351 |
| June 6, 2024      | 1:00 pm – 2:30 pm | Self-Help Credit Union Community Room   |
|                   |                   | 900 Crows Landing Rd., Modesto CA 95351 |
| September 5, 2024 | 1:00 pm – 2:30 pm | Self-Help Credit Union Community Room   |
|                   |                   | 900 Crows Landing Rd., Modesto CA 95351 |
| December 5, 2024  | 1:00 pm – 2:30 pm | Self-Help Credit Union Community Room   |
|                   |                   | 900 Crows Landing Rd., Modesto CA 95351 |

Once the suggested meeting dates are approved by the Business Development Committee, calendar invites will be sent out to all Committee members.

## **ADMINISTRATIVE BUDGET IMPACT:**

There is no fiscal impact associated with this Agenda Item.

Doris Foster, Director



## **Stanislaus County Workforce Development**

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## **December 7, 2023**

Stanislaus County Business Development Committee Agenda Item

TO: Business Development Committee

FROM: Doris Foster, Director

#### I. SUBJECT:

Review the Outcome of the First Half of the Employer Assessment Contract (WorkKeys) for the 2023-2024 Fiscal Year and Approve Not Renewing the Contract

- II. ITEM NUMBER: 5.C.
- III. ITEM TYPE: Discussion and Action

### IV. STAFF RECOMMENDATION:

Reviewal of the first half of the Employer Assessment Contract (WorkKeys) for the 2023-2024 Program Year and approve not renewing the Contract.

## V. POLICY ISSUE:

Per 20 CFR Parts 676, 677, and 678, § 678.430 Employer Assessments is defined as a basic career services that provides initial assessment of skill levels including literacy, numeracy, and English language proficiency, as well as aptitudes, abilities (including skill gaps).

#### VI. DISCUSSION:

Stanislaus County Workforce Development utilizes contract services in order to prove greater services to the community that can be leveraged by creating outside partnerships. Employer Assessment - WorkKeys are offered to local business to assist in making hiring and promotion decisions. The array of assessments measure foundational skills required in the workplace. Wokforce Development provides E-Skills and WorkKeys. E-skills is an array of assessments and can to accessed at any Job Center. WorkKeys is based on Buiness Referrals and is provided by a Contract with Opporutnity Stanislaus.

The current Employer Assessment - WorkKeys Contract included the following:

- 1. Proctor WorkKeys assessment for new hires, incumbent workers, apprenticeship programs, and internship programs of clients for local businesses.
- 2. Score assessments and enter data.
- 3. Order materials and invoice employers.
- 4. Refer job seekers and businesses to America's Job Center of California (AJCC) services as needed.

- 5. Provide a monthly report of total assessments, referrals, and outcomes to Stanislaus County Workforce Development by the 5th business day of the following month. Reported outcomes should include hires. promotions, and entry into training directly related to WorkKeys testing.
- 6. Gather satisfaction surveys from businesses and submit copy with monthly reporting. Surveys will be conducted at least every quarter.
- 7. Market, advertise, and promote WorkKeys assessment testing to target more diversified businesses to in-demand sectors in Stanislaus County.

During the 2018-2019 Fiscal Year, Workforce Development released a Request for Proposal for Employer Assessment Services. Based on the scoring of the proposals received in response to the Request for Proposal, Opportunity Stanislaus ranked the highest and was awarded the Employer Assessment Services Contract. The contract was a one-year term with the option to renew for two additional years. The three years of the contract ended June 30, 2022. The amount of the contract was \$50,000 each year for the three years.

For the 2022-2023 Fiscal Year, at the June 2, 2022 Business Development Committee meeting, the Committee approved the Pre-Employment Assessment Survey results regarding Employer Assessment and approved the recommendation of services to the Workforce Development Board. Additionally, the Committee also recommended that a budget of \$5,000 for marketing be included in the funding. The Committee approved the internal Pre-Assessment tools currently used as well as the Employer WorkKeys Pre-Assessment tool.

At the July 11, 2022 Workforce Development Board meeting the Board approved the recommendation made by the Business Development Committee to engage in the Pre-Employment Assessments of WorkKeys in the Amount of \$55,000 (which included the additional \$5,000 for marketing).

For the 2023-2024 Fiscal Year, at the March 2, 2023 Business Development Committee meeting, upon reviewing the quarterly WorkKeys Testing Report, the Committee requested further information with regards to the additional \$5,000 in marketing funds. The Committee requested a detailed report on how the marketing funds had been used, if there had been any social media campaigns, and if these campaigns were found to be useful. The Committee also requested feedback if Opportunity Stanislaus felt there was anything Workforce Development could do in order to assist in obtaining more visibility to encourage more employers to utilize WorkKeys.

On May 10, 2023 Opportunity Stanislaus hosted a marketing event called "Unlocking the Power of WorkKeys". Opportunity Stanislaus summarizes where the marketing focus has been placed during this last fiscal year as well as details of the event and the results obtained from it.

At the June 1, 2023 Business Development Committee meeting the Committee reviewed the results of the 2022-2023 WorkKeys Assessments from September 1, 2022 to April 30, 2023. At that time the Committee agreed to renew the employment assessment contract (WorkKeys) for the amount of \$25,000 for 6 more months with the requirement that they acquire 4 new businesses and perform 1,000 assessments within that time frame. The

contract would then be presented back to the Business Development Committee at the December meeting for possible extension.

As shown in Attachment A to this Agenda Item for the period July 1 through November 30, 2023 a total of 1 new business was acquired and 270 total assessments were performed. Therefore showing that the above stated requirements were not met it is recommended that the Committee not extend the contract for the remaining 6 months of the 2023-2024 Program Year.

## VII. ADMINISTRATIVE BUDGET IMPACT:

There is no staffing impact associated with this Agenda Item.

Doris Foster, Director



America\*sJobCenter

Attachment A

# **WorkKeys Testing**

WorkKeys assessments are offered to local business to assist in making hiring and promotion decisions. The array of assessments measure foundational skills required in the workplace.

July 1, 2023 to November 30, 2023

|                             | Individuals<br>Assessed | Total<br>Assessments | Individuals<br>Hired |
|-----------------------------|-------------------------|----------------------|----------------------|
| City of Newman              | 12                      | 36                   | 0                    |
| Gallo                       | 28                      | 51                   | 0                    |
| Oakdale Irrigation District | 22                      | 65                   | 10                   |
| Varni Brothers*             | 22                      | 44                   | 6                    |
| VOLT                        | 31                      | 74                   | 0                    |
| Totals:                     | 115                     | 270                  | 16                   |

<sup>\*</sup>First new business for WorkKeys testing

Average Hourly Wage at Hire – Oakdale Irrigation \$30.00; Varni Brothers \$22.00





## **Stanislaus County Workforce Development**

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## **December 7, 2023**

Stanislaus County Business Development Committee Agenda Item

**TO:** Business Development Committee

**FROM:** Doris Foster, Director

### SUBJECT:

Approval of the 2023-2024 In-Demand Occupation List for Workforce Innovation and Opportunity Act and Request Authority for the Director of Stanislaus County Workforce Development to Make Exceptions as Necessary

ITEM NUMBER: 5.D.

ITEM TYPE: Discussion and Action

#### STAFF RECOMMENDATION:

Approve the 2023-2024 In-Demand Occupation list for Workforce Innovation and Opportunity Act and authorize the Director of Stanislaus County Workforce Development to make exceptions as necessary.

#### **POLICY ISSUE:**

In-Demand Occupations are occupations that have, or are projected to have, a large number of positions that lead to economic self-sufficiency and/or opportunities for advancement. Workforce Innovation and Opportunity Act (WIOA) section 3(23) (B), states: The determination of whether an industry sector or occupation is in-demand under this paragraph shall be made by the State board or local board, as appropriate, using State and regional business and labor market projections, including the use of labor market information.

#### **DISCUSSION:**

While regulations require the Workforce Development Board to approve the In-Demand Sectors, the local Workforce Development Board has requested to review and approve the In-Demand Occupations List. Workforce Innovation and Opportunity Act allows eligible individuals in need of occupational skills training to select the training program that will best meet the individual's employment or career goal with the caveat that the local Workforce Development Board may limit the choices for training to occupations that are In-Demand in the local area. Stanislaus County Workforce Development (SCWD) provides a list of existing and emerging In-Demand Occupations to inform participants of occupations that are most likely to provide viable employment in the local area as required in WIOA Sec. 134(c)(3)(G)(iii).

The proposed 2023-2024 In-Demand Occupations list utilized Lightcast, which was vetted by the Department's Data Analyst and is the primary data analytics tool used by the Department.

Lightcast enables the Department to generate reports that show demand in the local area and the ability to identify prospective occupations for the In-Demand list. Lightcast allows Stanislaus County Workforce Development (SCWD) to obtain up-to-date occupational analysis based on the most recent Quarterly Census of Employment and Wages (QCEW) of the previous year. The In-Demand Occupation methodologies were calibrated as follows.

## **In-Demand Occupation Methodology**

Occupations were screened based on Lightcast data.

## **Industry-Specific Occupations**

- 1. For each of the 5 Targeted Industry sectors, selected the top 50 occupations with the most jobs in 2022
  - a. Agriculture Forestry Fishing and Hunting
  - b. Construction
  - c. Health Care and Social Assistance
  - d. Manufacturing
  - e. Transportation and Warehousing
- 2. Selected Occupations with Median Hourly Earnings greater than \$17.01
  - a. 2022 Lower Living Standard Income Level (LLSIL) at 200% for a single adult to determine the rate for self-sufficiency.
    - i. <a href="https://edd.ca.gov/Jobs">https://edd.ca.gov/Jobs</a> and Training/pubs/wsd21-06att1.pdf
- 3. Selected occupations in projected 5 Year Forecast (2022-2027) with positive growth rate

Attachment 1 includes occupations identified to be In-Demand for Program Year 2023-2024, thus allowing for use of WIOA training funds for Vocational Trainings. Occupations selected are in the top 50 of industry Sector 2022 jobs, have median annual earnings greater than 200% LLSIL, and projected growth in next 5 years. No occupations with an average wage below 200% LLSIL are included in the In-Demand Occupations list. Work Based Learning programs, such as transitional jobs and on-the-job trainings may access all in demand occupational opportunities.

Attachment 2 shows those occupations previously included in the 2022-2023 In-Demand Occupations list and the reason why they are no longer included in the 2023-2024 In-Demand List, as well as those occupations added for the 2023-2024 In-Demand Occupations listing.

The Board has discretion to modify the attached In-Demand Occupations list as necessary. The Director of the Department has the ability to make exceptions to the In-Demand Occupations list on a case-by-case basis. An example of such an exception is when an employer guarantees a job to an individual pending completion of a training program for an occupation that is not on the list.

## **ADMINISTRATIVE BUDGET IMPACT:**

There is no Budget Impact associated with this item, however, approval of the In-Demand Occupations List allows funds to be expended on vocational skills training targeting occupations that will result in greater employability of participants.

Doris Foster, Director

| SOC     | Health Care and Social Assistance                                      | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 29-1141 | Registered Nurses  | 21.18%                    | \$64.41                      | 3820                  | 4108                  | 4381                  | 289                     | 7.6%                      | 273                     | 6.6%                      | Bachelor's degree                       | None                                    | None                           |
| 31-1131 | Nursing Assistants   | 7.54%                     | \$18.18                      | 1506                  | 1462                  | 1657                  | -43                     | -2.9%                     | 194                     | 13.3%                     | Postsecondary nondegree award           | None                                    | None                           |
| 31-9092 | Medical Assistants   | 7.24%                     | \$19.14                      | 1252                  | 1405                  | 1561                  | 153                     | 12.2%                     | 157                     | 11.1%                     | Postsecondary nondegree award           | None                                    | None                           |
| 43-6013 | Medical Secretaries and Administrative Assistants                      | 6.23%                     | \$21.76                      | 1156                  | 1208                  | 1318                  | 52                      | 4.5%                      | 110                     | 9.1%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 31-9091 | Dental Assistants  | 4.63%                     | \$22.33                      | 731                   | 899                   | 1043                  | 168                     | 22.9%                     | 145                     | 16.1%                     | Postsecondary nondegree award           | None                                    | None                           |
| 29-2061 | Licensed Practical and Licensed Vocational<br>Nurses                   | 4.34%                     | \$29.97                      | 954                   | 841                   | 950                   | -113                    | -11.8%                    | 109                     | 12.9%                     | Postsecondary nondegree award           | None                                    | None                           |
| 11-9111 | Medical and Health Services Managers                                   | 3.26%                     | \$63.23                      | 420                   | 632                   | 764                   | 212                     | 50.4%                     | 132                     | 20.9%                     | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 21-1093 | Social and Human Service Assistants                                    | 2.60%                     | \$22.14                      | 428                   | 504                   | 584                   | 76                      | 17.7%                     | 80                      | 16.0%                     | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 43-4171 | Receptionists and Information Clerks                                   | 2.39%                     | \$17.37                      | 604                   | 464                   | 536                   | -140                    | -23.2%                    | 72                      | 15.6%                     | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 43-3021 | Billing and Posting Clerks   | 2.15%                     | \$20.03                      | 351                   | 416                   | 447                   | 65                      | 18.5%                     | 31                      | 7.4%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 21-1018 | Substance Abuse, Behavioral Disorder, and<br>Mental Health Counselors  | 2.01%                     | \$24.49                      | 392                   | 390                   | 465                   | -2                      | -0.6%                     | 75                      | 19.2%                     | Bachelor's degree                       | None                                    | None                           |
| 43-9061 | Office Clerks, General   | 1.92%                     | \$18.81                      | 546                   | 371                   | 405                   | -174                    | -31.9%                    | 33                      | 9.0%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 29-1123 | Physical Therapists  | 1.91%                     | \$60.35                      | 231                   | 370                   | 444                   | 139                     | 60.1%                     | 74                      | 19.8%                     | Doctoral or<br>professional<br>degree   | None                                    | None                           |
| 29-1229 | Physicians, All Other  | 1.79%                     | \$120.40                     | 85                    | 347                   | 357                   | 262                     | 309.8%                    | 10                      | 2.9%                      | Doctoral or<br>professional<br>degree   | Internship/reside ncy                   | None                           |
| 43-1011 | First-Line Supervisors of Office and<br>Administrative Support Workers | 1.77%                     | \$29.77                      | 359                   | 344                   | 376                   | -15                     | -4.3%                     | 32                      | 9.2%                      | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 25-2011 | Preschool Teachers, Except Special Education                           | 1.68%                     | \$18.87                      | 258                   | 325                   | 379                   | 67                      | 26.2%                     | 54                      | 16.7%                     | Associate's degree                      | None                                    | None                           |
| 21-1013 | Marriage and Family Therapists   | 1.66%                     | \$28.14                      | 255                   | 322                   | 350                   | 67                      | 26.3%                     | 28                      | 8.8%                      | Master's degree                         | Internship/reside ncy                   | None                           |
| 29-1292 | Dental Hygienists  | 1.56%                     | \$51.65                      | 279                   | 302                   | 369                   | 23                      | 8.4%                      | 67                      | 22.2%                     | Associate's degree                      | None                                    | None                           |

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| soc     | Health Care and Social Assistance (cont.)  | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 29-2099 | Health Technologists and Technicians, All Other                                    | 1.39%                     | \$23.05                      | 270                   | 270                   | 315                   | 0                       | -0.1%                     | 45                      | 16.5%                     | Postsecondary nondegree award           | None                                    | None                           |
| 11-9151 | Social and Community Service Managers  | 1.38%                     | \$33.39                      | 216                   | 267                   | 305                   | 51                      | 23.4%                     | 38                      | 14.2%                     | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 43-6014 | Secretaries and Administrative Assistants,<br>Except Legal, Medical, and Executive | 1.33%                     | \$22.48                      | 336                   | 257                   | 275                   | -79                     | -23.4%                    | 17                      | 6.8%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 29-2018 | Clinical Laboratory Technologists and<br>Technicians                               | 1.28%                     | \$34.46                      | 285                   | 248                   | 270                   | -37                     | -12.8%                    | 22                      | 8.8%                      | Bachelor's degree                       | None                                    | None                           |
| 29-2072 | Medical Records Specialists  | 1.24%                     | \$23.28                      | 263                   | 241                   | 255                   | -23                     | -8.7%                     | 14                      | 5.9%                      | Postsecondary nondegree award           | None                                    | None                           |
| 29-1171 | Nurse Practitioners  | 1.24%                     | \$72.95                      | 186                   | 240                   | 315                   | 54                      | 29.2%                     | 75                      | 31.3%                     | Master's degree                         | None                                    | None                           |
| 29-2034 | Radiologic Technologists and Technicians   | 1.15%                     | \$49.90                      | 243                   | 223                   | 246                   | -19                     | -7.9%                     | 23                      | 10.3%                     | Associate's<br>degree<br>Doctoral or    | None                                    | None                           |
| 29-1021 | Dentists, General  | 1.14%                     | \$79.37                      | 152                   | 221                   | 257                   | 69                      | 45.7%                     | 36                      | 16.1%                     | professional<br>degree                  | None                                    | None                           |
| 21-1021 | Child, Family, and School Social Workers   | 1.09%                     | \$23.55                      | 276                   | 211                   | 249                   | -65                     | -23.5%                    | 38                      | 17.8%                     | Bachelor's degree                       | None                                    | None                           |
| 29-1126 | Respiratory Therapists   | 1.03%                     | \$48.79                      | 169                   | 201                   | 219                   | 32                      | 18.8%                     | 18                      | 9.1%                      | Associate's degree                      | None                                    | None                           |
| 29-2055 | Surgical Technologists   | 0.96%                     | \$36.82                      | 139                   | 187                   | 200                   | 48                      | 34.6%                     | 13                      | 6.9%                      | Postsecondary nondegree award           | None                                    | None                           |
| 31-9099 | Healthcare Support Workers, All Other  | 0.88%                     | \$21.50                      | 117                   | 171                   | 180                   | 54                      | 46.3%                     | 10                      | 5.7%                      | High school<br>diploma or<br>equivalent | None                                    | None                           |
| 21-1022 | Healthcare Social Workers  | 0.86%                     | \$44.16                      | 209                   | 167                   | 199                   | -43                     | -20.4%                    | 32                      | 19.2%                     | Master's degree                         | Internship/reside ncy                   | None                           |
| 29-1071 | Physician Assistants   | 0.84%                     | \$74.45                      | 146                   | 163                   | 198                   | 17                      | 12.0%                     | 35                      | 21.4%                     | Master's degree                         | None                                    | None                           |
| 11-1021 | General and Operations Managers  | 0.80%                     | \$47.50                      | 194                   | 155                   | 189                   | -39                     | -20.2%                    | 34                      | 21.9%                     | Bachelor's degree                       | None                                    | 5 years or more                |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks                                       | 0.80%                     | \$23.15                      | 181                   | 155                   | 166                   | -27                     | -14.6%                    | 11                      | 7.3%                      | Some college, no degree                 | Moderate-term<br>on-the-job<br>training | None                           |
| 21-1019 | Counselors, All Other  | 0.79%                     | \$21.55                      | 219                   | 154                   | 163                   | -65                     | -29.6%                    | 9                       | 6.0%                      | Master's degree                         | None                                    | None                           |
| 13-1199 | Business Operations Specialists, All Other   | 0.79%                     | \$32.61                      | 89                    | 154                   | 170                   | 64                      | 72.1%                     | 17                      | 10.8%                     | Bachelor's degree                       | None                                    | None                           |
| 43-4051 | Customer Service Representatives   | 0.79%                     | \$18.77                      | 143                   | 154                   | 166                   | 10                      | 7.2%                      | 13                      | 8.3%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 31-2021 | Physical Therapist Assistants  | 0.78%                     | \$35.07                      | 111                   | 152                   | 193                   | 41                      | 37.2%                     | 41                      | 27.0%                     | Associate's degree                      | None                                    | None                           |

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| soc     | Health Care and Social Assistance (cont.) | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|---|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 29-2053 | Psychiatric Technicians                   | 0.73%                     | \$24.46                      | 66                    | 142                   | 155                   | 76                      | 114.9%                    | 13                      | 9.2%                      | Postsecondary nondegree award           | Short-term on-<br>the-job training      | Less than 5<br>years           |
| 31-9093 | Medical Equipment Preparers               | 0.73%                     | \$31.59                      | 107                   | 141                   | 146                   | 34                      | 31.8%                     | 5                       | 3.5%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-9071 | Maintenance and Repair Workers, General   | 0.71%                     | \$23.74                      | 158                   | 138                   | 157                   | -20                     | -12.7%                    | 19                      | 14.0%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 29-1051 | Pharmacists                               | 0.71%                     | \$74.35                      | 92                    | 137                   | 153                   | 45                      | 49.4%                     | 16                      | 11.6%                     | Doctoral or professional degree         | None                                    | None                           |
| 29-1215 | Family Medicine Physicians                | 0.69%                     | \$85.44                      | 196                   | 133                   | 140                   | -63                     | -32.2%                    | 7                       | 5.0%                      | Doctoral or professional degree         | Internship/reside ncy                   | None                           |

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| soc     | Construction   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 47-2061 | Construction Laborers  | 14.69%                    | \$21.62                      | 1620                  | 1835                  | 2044                  | 215                     | 13.3%                     | 209                     | 11.4%                     | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 47-2031 | Carpenters   | 14.64%                    | \$28.65                      | 1381                  | 1828                  | 1981                  | 447                     | 32.4%                     | 153                     | 8.4%                      | High school<br>diploma or<br>equivalent | Apprenticeship                          | None                           |
| 47-2111 | Electricians   | 6.37%                     | \$29.88                      | 588                   | 795                   | 898                   | 207                     | 35.2%                     | 104                     | 13.1%                     | High school<br>diploma or<br>equivalent | Apprenticeship                          | None                           |
| 47-2141 | Painters, Construction and Maintenance                                   | 6.17%                     | \$23.16                      | 742                   | 770                   | 844                   | 29                      | 3.8%                      | 74                      | 9.6%                      | No formal educational credential        | Moderate-term<br>on-the-job<br>training | None                           |
| 47-1011 | First-Line Supervisors of Construction Trades and Extraction Workers     | 5.79%                     | \$37.59                      | 615                   | 722                   | 806                   | 108                     | 17.5%                     | 84                      | 11.6%                     | High school<br>diploma or<br>equivalent | None                                    | 5 years or more                |
| 11-9021 | Construction Managers  | 5.23%                     | \$41.23                      | 455                   | 653                   | 738                   | 198                     | 43.5%                     | 85                      | 13.0%                     | Bachelor's degree                       | Moderate-term<br>on-the-job<br>training | None                           |
| 47-2152 | Plumbers, Pipefitters, and Steamfitters                                  | 3.44%                     | \$27.65                      | 375                   | 429                   | 472                   | 54                      | 14.5%                     | 43                      | 9.9%                      | High school<br>diploma or<br>equivalent | Apprenticeship                          | None                           |
| 49-9021 | Heating, Air Conditioning, and Refrigeration<br>Mechanics and Installers | 3.39%                     | \$28.98                      | 476                   | 423                   | 470                   | -53                     | -11.2%                    | 47                      | 11.1%                     | Postsecondary nondegree award           | Long-term on-the-<br>job training       | None                           |
| 47-2081 | Drywall and Ceiling Tile Installers                                      | 3.11%                     | \$23.83                      | 377                   | 388                   | 399                   | 11                      | 2.9%                      | 11                      | 2.7%                      | No formal educational credential        | Moderate-term<br>on-the-job<br>training | None                           |
| 43-9061 | Office Clerks, General   | 2.66%                     | \$18.81                      | 371                   | 332                   | 355                   | -39                     | -10.6%                    | 24                      | 7.2%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 47-2073 | Operating Engineers and Other Construction<br>Equipment Operators        | 2.48%                     | \$37.60                      | 240                   | 310                   | 351                   | 69                      | 28.8%                     | 42                      | 13.5%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 47-2051 | Cement Masons and Concrete Finishers                                     | 2.35%                     | \$30.21                      | 246                   | 294                   | 325                   | 47                      | 19.1%                     | 32                      | 10.7%                     | No formal<br>educational<br>credential  | Moderate-term on-the-job training       | None                           |
| 11-9199 | Managers, All Other  | 2.31%                     | \$39.74                      | 245                   | 288                   | 315                   | 43                      | 17.6%                     | 27                      | 9.3%                      | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 47-2181 | Roofers  | 2.19%                     | \$29.15                      | 286                   | 273                   | 292                   | -12                     | -4.4%                     | 19                      | 7.0%                      | No formal educational credential        | Moderate-term<br>on-the-job<br>training | None                           |
| 11-1021 | General and Operations Managers  | 1.90%                     | \$47.50                      | 235                   | 238                   | 274                   | 3                       | 1.2%                      | 37                      | 15.4%                     | Bachelor's degree                       | None                                    | 5 years or more                |
| 13-1051 | Cost Estimators  | 1.69%                     | \$36.64                      | 212                   | 212                   | 230                   | -1                      | -0.3%                     | 18                      | 8.5%                      | Bachelor's degree                       | Moderate-term<br>on-the-job<br>training | None                           |
| 13-1082 | Project Management Specialists   | 1.55%                     | \$46.49                      | 29                    | 194                   | 222                   | 165                     | 569.1%                    | 28                      | 14.4%                     | Bachelor's degree                       | None                                    | None                           |

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| soc     | Construction (cont.)   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education                       | Typical On-The-<br>Job Training                          | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|--|--|--------------------------------|
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks   | 1.52%                     | \$23.15                      | 200                   | 189                   | 202                   | -11                     | -5.4%                     | 13                      | 6.7%                      | Some college, no degree                                | Moderate-term<br>on-the-job<br>training                  | None                           |
| 43-6014 | Secretaries and Administrative Assistants,<br>Except Legal, Medical, and Executive                     | 1.43%                     | \$22.48                      | 222                   | 179                   | 188                   | -43                     | -19.5%                    | 9                       | 5.0%                      | High school<br>diploma or<br>equivalent                | Short-term on-<br>the-job training                       | None                           |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers  | 1.25%                     | \$23.40                      | 179                   | 156                   | 179                   | -23                     | -12.7%                    | 23                      | 14.7%                     | Postsecondary nondegree award                          | Short-term on-<br>the-job training                       | None                           |
| 41-3091 | Sales Representatives of Services, Except<br>Advertising, Insurance, Financial Services, and<br>Travel | 1.16%                     | \$27.20                      | 101                   | 144                   | 161                   | 43                      | 42.7%                     | 17                      | 11.5%                     | High school<br>diploma or<br>equivalent                | Moderate-term<br>on-the-job<br>training                  | None                           |
| 47-2044 | Tile and Stone Setters   | 0.92%                     | \$27.47                      | 81                    | 115                   | 123                   | 34                      | 41.7%                     | 8                       | 7.4%                      | No formal educational credential                       | Long-term on-the-<br>job training                        | None                           |
| 47-2211 | Sheet Metal Workers  | 0.87%                     | \$30.45                      | 97                    | 109                   | 119                   | 12                      | 12.2%                     | 10                      | 8.8%                      | High school<br>diploma or<br>equivalent                | Apprenticeship   | None                           |
| 47-2161 | Plasterers and Stucco Masons   | 0.86%                     | \$24.24                      | 88                    | 108                   | 112                   | 20                      | 22.8%                     | 4                       | 3.5%                      | No formal educational credential                       | Long-term on-the-<br>job training                        | None                           |
| 47-2221 | Structural Iron and Steel Workers  | 0.74%                     | \$29.29                      | 104                   | 93                    | 107                   | -11                     | -10.7%                    | 15                      | 16.1%                     | High school<br>diploma or<br>equivalent                | Apprenticeship   | None                           |
| 51-4121 | Welders, Cutters, Solderers, and Brazers   | 0.74%                     | \$23.28                      | 103                   | 92                    | 103                   | -11                     | -10.5%                    | 11                      | 12.0%                     | High school<br>diploma or<br>equivalent<br>High school | Moderate-term<br>on-the-job<br>training<br>Moderate-term | None                           |
| 47-2231 | Solar Photovoltaic Installers  | 0.72%                     | \$23.17                      | 60                    | 90                    | 107                   | 29                      | 49.0%                     | 17                      | 19.3%                     | diploma or<br>equivalent                               | on-the-job<br>training                                   | None                           |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers   | 0.65%                     | \$39.70                      | 53                    | 81                    | 88                    | 28                      | 52.1%                     | 7                       | 8.2%                      | High school<br>diploma or<br>equivalent                | None   | Less than 5<br>years           |
| 47-3012 | HelpersCarpenters  | 0.61%                     | \$22.78                      | 27                    | 76                    | 81                    | 48                      | 176.5%                    | 5                       | 6.6%                      | No formal<br>educational<br>credential                 | Short-term on-<br>the-job training                       | None                           |
| 53-7062 | Laborers and Freight, Stock, and Material<br>Movers, Hand  | 0.59%                     | \$18.04                      | 78                    | 74                    | 81                    | -4                      | -5.7%                     | 7                       | 9.9%                      | No formal educational credential                       | Short-term on-<br>the-job training                       | None                           |
| 43-1011 | First-Line Supervisors of Office and<br>Administrative Support Workers                                 | 0.57%                     | \$29.77                      | 64                    | 72                    | 76                    | 7                       | 11.3%                     | 5                       | 6.7%                      | High school<br>diploma or<br>equivalent                | None   | Less than 5 years              |
| 47-3019 | Helpers, Construction Trades, All Other  | 0.57%                     | \$24.77                      | 30                    | 71                    | 76                    | 41                      | 139.8%                    | 5                       | 7.0%                      | No formal educational credential                       | Short-term on-<br>the-job training                       | None                           |
| 47-2171 | Reinforcing Iron and Rebar Workers   | 0.56%                     | \$28.92                      | 29                    | 70                    | 76                    | 41                      | 139.8%                    | 7                       | 9.7%                      | High school<br>diploma or<br>equivalent                | Apprenticeship   | None                           |

| soc     | Construction (cont.)  | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|---|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 47-2121 | Glaziers  | 0.54%                     | \$24.28                      | 48                    | 68                    | 80                    | 19                      | 39.8%                     | 13                      | 18.7%                     | High school<br>diploma or<br>equivalent | Apprenticeship                          | None                           |
| 47-2131 | Insulation Workers, Floor, Ceiling, and Wall                                  | 0.50%                     | \$23.47                      | 54                    | 63                    | 67                    | 9                       | 16.7%                     | 4                       | 6.3%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 47-2042 | Floor Layers, Except Carpet, Wood, and Hard Tiles                             | 0.47%                     | \$22.60                      | 22                    | 59                    | 65                    | 37                      | 170.4%                    | 6                       | 10.0%                     | No formal educational credential        | Moderate-term<br>on-the-job<br>training | None                           |
| 47-3011 | HelpersBrickmasons, Blockmasons,<br>Stonemasons, and Tile and Marble Setters  | 0.47%                     | \$20.26                      | 87                    | 58                    | 60                    | -29                     | -32.9%                    | 2                       | 3.0%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 17-2051 | Civil Engineers   | 0.47%                     | \$51.06                      | 45                    | 58                    | 66                    | 14                      | 30.4%                     | 8                       | 13.2%                     | Bachelor's degree                       | None                                    | None                           |
| 47-2021 | Brickmasons and Blockmasons   | 0.46%                     | \$24.93                      | 64                    | 58                    | 62                    | -6                      | -9.7%                     | 4                       | 7.6%                      | High school<br>diploma or<br>equivalent | Apprenticeship                          | None                           |
| 13-2011 | Accountants and Auditors  | 0.45%                     | \$38.81                      | 34                    | 56                    | 64                    | 22                      | 65.2%                     | 8                       | 14.0%                     | Bachelor's degree                       | None                                    | None                           |
| 49-9099 | Installation, Maintenance, and Repair Workers,<br>All Other                   | 0.43%                     | \$19.37                      | 58                    | 53                    | 57                    | -4                      | -7.0%                     | 4                       | 6.8%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-9098 | HelpersInstallation, Maintenance, and Repair<br>Workers                       | 0.40%                     | \$18.82                      | 45                    | 50                    | 54                    | 5                       | 11.2%                     | 4                       | 8.0%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 49-9071 | Maintenance and Repair Workers, General                                       | 0.37%                     | \$23.74                      | 60                    | 46                    | 52                    | -14                     | -22.9%                    | 6                       | 12.8%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-9052 | Telecommunications Line Installers and Repairers                              | 0.37%                     | \$37.14                      | 31                    | 46                    | 50                    | 14                      | 46.0%                     | 4                       | 8.7%                      | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |
| 49-3042 | Mobile Heavy Equipment Mechanics, Except Engines                              | 0.36%                     | \$29.64                      | 28                    | 44                    | 50                    | 16                      | 58.4%                     | 6                       | 13.0%                     | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |
| 47-2071 | Paving, Surfacing, and Tamping Equipment<br>Operators                         | 0.34%                     | \$27.76                      | 39                    | 42                    | 49                    | 3                       | 7.4%                      | 7                       | 16.1%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers | 0.33%                     | \$32.06                      | 74                    | 42                    | 44                    | -33                     | -44.1%                    | 3                       | 6.2%                      | Postsecondary nondegree award           | Moderate-term<br>on-the-job<br>training | None                           |
| 47-2151 | Pipelayers  | 0.32%                     | \$32.97                      | 41                    | 40                    | 42                    | -1                      | -1.5%                     | 2                       | 4.9%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |

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| soc     | Agriculture, Forestry, Fishing and Hunting   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 45-2091 | Agricultural Equipment Operators   | 18.98%                    | \$18.54                      | 491                   | 447                   | 466                   | -45                     | -9.1%                     | 19                      | 4.3%                      | No formal<br>educational<br>credential  | Moderate-term<br>on-the-job<br>training | None                           |
| 45-1011 | First-Line Supervisors of Farming, Fishing, and Forestry Workers                                   | 16.31%                    | \$22.33                      | 359                   | 384                   | 397                   | 24                      | 6.8%                      | 13                      | 3.5%                      | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers  | 8.88%                     | \$23.40                      | 206                   | 209                   | 215                   | 3                       | 1.6%                      | 6                       | 2.9%                      | Postsecondary nondegree award           | Short-term on-<br>the-job training      | None                           |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand   | 6.00%                     | \$18.04                      | 107                   | 141                   | 146                   | 34                      | 31.7%                     | 5                       | 3.7%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 53-7051 | Industrial Truck and Tractor Operators   | 5.52%                     | \$21.93                      | 111                   | 130                   | 136                   | 19                      | 17.0%                     | 6                       | 4.9%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 49-9071 | Maintenance and Repair Workers, General  | 3.98%                     | \$23.74                      | 70                    | 94                    | 94                    | 24                      | 34.1%                     | 0                       | 0.2%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 37-3011 | Landscaping and Groundskeeping Workers   | 3.31%                     | \$17.70                      | 82                    | 78                    | 81                    | -4                      | -5.0%                     | 3                       | 3.7%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 11-1021 | General and Operations Managers  | 3.20%                     | \$47.50                      | 60                    | 75                    | 77                    | 16                      | 26.2%                     | 1                       | 2.0%                      | Bachelor's degree                       | None                                    | 5 years or more                |
| 41-4012 | Sales Representatives, Wholesale and<br>Manufacturing, Except Technical and Scientific<br>Products | 3.09%                     | \$34.21                      | 61                    | 73                    | 77                    | 12                      | 19.5%                     | 4                       | 5.3%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 53-3033 | Light Truck Drivers  | 2.96%                     | \$18.32                      | 77                    | 70                    | 71                    | -7                      | -9.3%                     | 1                       | 1.4%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 51-9111 | Packaging and Filling Machine Operators and Tenders  | 2.56%                     | \$22.44                      | 78                    | 60                    | 63                    | -18                     | -22.7%                    | 2                       | 4.0%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 11-9199 | Managers, All Other  | 2.51%                     | \$39.74                      | 49                    | 59                    | 59                    | 10                      | 20.0%                     | 0                       | 0.7%                      | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                                      | 2.35%                     | \$17.09                      | 55                    | 55                    | 56                    | 0                       | 0.0%                      | 1                       | 1.9%                      | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 19-4012 | Agricultural Technicians   | 1.99%                     | \$19.09                      | 33                    | 47                    | 49                    | 14                      | 42.0%                     | 2                       | 4.4%                      | Associate's degree                      | Moderate-term<br>on-the-job<br>training | None                           |
| 13-2011 | Accountants and Auditors   | 1.78%                     | \$38.81                      | 45                    | 42                    | 44                    | -3                      | -7.5%                     | 2                       | 5.0%                      | Bachelor's degree                       | None                                    | None                           |
| 51-9199 | Production Workers, All Other  | 1.77%                     | \$21.13                      | 45                    | 42                    | 42                    | -4                      | -8.0%                     | 0                       | 0.8%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-3041 | Farm Equipment Mechanics and Service<br>Technicians  | 1.57%                     | \$29.39                      | 31                    | 37                    | 40                    | 6                       | 20.9%                     | 3                       | 9.3%                      | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |

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| soc     | Agriculture, Forestry, Fishing and Hunting (cont.)   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training                          | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|--|--------------------------------|
| 43-5071 | Shipping, Receiving, and Inventory Clerks  | 1.42%                     | \$18.77                      | 35                    | 33                    | 34                    | -1                      | -3.6%                     | 1                       | 2.9%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training                       | None                           |
| 43-1011 | First-Line Supervisors of Office and<br>Administrative Support Workers   | 1.33%                     | \$29.77                      | 26                    | 31                    | 32                    | 5                       | 20.5%                     | 1                       | 2.1%                      | High school<br>diploma or<br>equivalent | None   | Less than 5<br>years           |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers   | 1.23%                     | \$19.80                      | 15                    | 29                    | 32                    | 14                      | 89.4%                     | 3                       | 9.9%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training<br>Moderate-term | None                           |
| 45-2011 | Agricultural Inspectors  | 1.21%                     | \$24.19                      | 25                    | 28                    | 29                    | 4                       | 16.0%                     | 1                       | 3.0%                      | Bachelor's degree                       | on-the-job<br>training                                   | None                           |
| 19-1013 | Soil and Plant Scientists  | 1.03%                     | \$36.70                      | 12                    | 24                    | 25                    | 12                      | 107.1%                    | 1                       | 4.7%                      | Bachelor's degree                       | None   | None                           |
| 13-1074 | Farm Labor Contractors   | 0.98%                     | \$23.38                      | 0                     | 23                    | 24                    | 23                      | 6611.0%                   | 1                       | 4.5%                      | No formal educational credential        | Short-term on-<br>the-job training                       | Less than 5<br>years           |
| 53-7065 | Stockers and Order Fillers   | 0.97%                     | \$17.52                      | 19                    | 23                    | 24                    | 4                       | 22.6%                     | 1                       | 2.6%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training                       | None                           |
| 53-1047 | First-Line Supervisors of Transportation and<br>Material Moving Workers, Except Aircraft Cargo<br>Handling Supervisors | 0.88%                     | \$28.57                      | 11                    | 21                    | 22                    | 10                      | 97.7%                     | 2                       | 7.8%                      | High school<br>diploma or<br>equivalent | None   | Less than 5<br>years           |
| 37-3012 | Pesticide Handlers, Sprayers, and Applicators,<br>Vegetation   | 0.87%                     | \$17.66                      | 12                    | 21                    | 22                    | 9                       | 74.7%                     | 1                       | 5.4%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training                  | None                           |
| 11-2022 | Sales Managers   | 0.87%                     | \$41.94                      | 13                    | 20                    | 21                    | 8                       | 63.1%                     | 1                       | 3.1%                      | Bachelor's degree                       | None   | Less than 5<br>years           |
| 43-3051 | Payroll and Timekeeping Clerks   | 0.85%                     | \$26.64                      | 18                    | 20                    | 20                    | 2                       | 9.2%                      | 0                       | 1.8%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training                  | None                           |
| 53-7011 | Conveyor Operators and Tenders   | 0.81%                     | \$18.35                      | 19                    | 19                    | 20                    | 0                       | 2.2%                      | 1                       | 4.2%                      | No formal educational credential        | Short-term on-<br>the-job training                       | None                           |
| 11-3031 | Financial Managers   | 0.79%                     | \$63.23                      | 11                    | 19                    | 20                    | 8                       | 73.1%                     | 1                       | 7.6%                      | Bachelor's degree                       | None   | 5 years or more                |

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| soc     | Manufacturing  | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 51-9111 | Packaging and Filling Machine Operators and Tenders  | 15.13%                    | \$22.44                      | 1397                  | 1750                  | 1771                  | 353                     | 25.3%                     | 21                      | 1.2%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand   | 10.44%                    | \$18.04                      | 927                   | 1208                  | 1227                  | 280                     | 30.2%                     | 20                      | 1.6%                      | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 53-7051 | Industrial Truck and Tractor Operators   | 6.71%                     | \$21.93                      | 860                   | 776                   | 789                   | -83                     | -9.7%                     | 13                      | 1.6%                      | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 51-1011 | First-Line Supervisors of Production and<br>Operating Workers                                      | 6.26%                     | \$32.73                      | 579                   | 724                   | 761                   | 145                     | 25.0%                     | 38                      | 5.2%                      | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 49-9041 | Industrial Machinery Mechanics   | 5.49%                     | \$32.16                      | 511                   | 635                   | 706                   | 124                     | 24.3%                     | 71                      | 11.1%                     | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers   | 4.57%                     | \$19.80                      | 505                   | 529                   | 543                   | 23                      | 4.6%                      | 14                      | 2.7%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 41-4012 | Sales Representatives, Wholesale and<br>Manufacturing, Except Technical and Scientific<br>Products | 4.34%                     | \$34.21                      | 547                   | 502                   | 519                   | -44                     | -8.1%                     | 16                      | 3.3%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers  | 3.72%                     | \$23.40                      | 557                   | 430                   | 434                   | -126                    | -22.7%                    | 4                       | 0.9%                      | Postsecondary nondegree award           | Short-term on-<br>the-job training      | None                           |
| 51-3092 | Food Batchmakers   | 3.55%                     | \$18.00                      | 538                   | 411                   | 449                   | -127                    | -23.6%                    | 38                      | 9.3%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-9071 | Maintenance and Repair Workers, General  | 3.53%                     | \$23.74                      | 363                   | 408                   | 423                   | 46                      | 12.7%                     | 15                      | 3.6%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 51-4121 | Welders, Cutters, Solderers, and Brazers   | 3.25%                     | \$23.28                      | 396                   | 376                   | 377                   | -20                     | -5.0%                     | 1                       | 0.2%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 11-1021 | General and Operations Managers  | 2.62%                     | \$47.50                      | 341                   | 303                   | 321                   | -39                     | -11.3%                    | 18                      | 5.9%                      | Bachelor's degree                       | None                                    | 5 years or more                |
| 51-9199 | Production Workers, All Other  | 2.46%                     | \$21.13                      | 262                   | 284                   | 294                   | 22                      | 8.4%                      | 9                       | 3.2%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 43-5061 | Production, Planning, and Expediting Clerks  | 2.25%                     | \$25.19                      | 144                   | 261                   | 267                   | 116                     | 80.8%                     | 6                       | 2.3%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 51-9023 | Mixing and Blending Machine Setters,<br>Operators, and Tenders                                     | 2.16%                     | \$22.06                      | 351                   | 250                   | 256                   | -101                    | -28.9%                    | 6                       | 2.6%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 11-3051 | Industrial Production Managers   | 2.10%                     | \$50.31                      | 221                   | 243                   | 253                   | 22                      | 9.9%                      | 10                      | 4.2%                      | Bachelor's degree                       | None                                    | 5 years or more                |
| 51-4041 | Machinists   | 1.91%                     | \$23.40                      | 222                   | 221                   | 244                   | -2                      | -0.7%                     | 23                      | 10.5%                     | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |

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| soc     | Manufacturing (cont.)  | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 51-9196 | Paper Goods Machine Setters, Operators, and Tenders  | 1.88%                     | \$23.64                      | 79                    | 218                   | 227                   | 139                     | 175.6%                    | 9                       | 4.1%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 11-2022 | Sales Managers   | 1.72%                     | \$41.94                      | 118                   | 199                   | 202                   | 81                      | 68.7%                     | 3                       | 1.5%                      | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 53-7065 | Stockers and Order Fillers   | 1.67%                     | \$17.52                      | 230                   | 193                   | 202                   | -37                     | -16.0%                    | 9                       | 4.5%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 51-7011 | Cabinetmakers and Bench Carpenters   | 1.58%                     | \$18.27                      | 175                   | 182                   | 203                   | 7                       | 4.2%                      | 21                      | 11.5%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 19-4013 | Food Science Technicians   | 1.52%                     | \$23.59                      | 104                   | 176                   | 179                   | 72                      | 69.8%                     | 2                       | 1.4%                      | Associate's degree                      | Moderate-term<br>on-the-job<br>training | None                           |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners  | 1.43%                     | \$17.09                      | 142                   | 166                   | 171                   | 23                      | 16.4%                     | 5                       | 3.1%                      | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 51-9041 | Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders                                   | 1.42%                     | \$23.52                      | 85                    | 164                   | 171                   | 79                      | 93.9%                     | 7                       | 4.4%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 43-4051 | Customer Service Representatives   | 1.24%                     | \$18.77                      | 146                   | 144                   | 146                   | -3                      | -1.9%                     | 3                       | 2.0%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 53-1047 | First-Line Supervisors of Transportation and<br>Material Moving Workers, Except Aircraft Cargo<br>Handling Supervisors | 1.23%                     | \$28.57                      | 96                    | 143                   | 144                   | 46                      | 48.1%                     | 1                       | 0.9%                      | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 51-4072 | Molding, Coremaking, and Casting Machine<br>Setters, Operators, and Tenders, Metal and<br>Plastic                      | 1.22%                     | \$17.71                      | 101                   | 141                   | 154                   | 40                      | 39.9%                     | 14                      | 9.7%                      | High school<br>diploma or<br>equivalent | Moderate-term on-the-job training       | None                           |
| 11-9199 | Managers, All Other  | 1.20%                     | \$39.74                      | 133                   | 139                   | 145                   | 6                       | 4.4%                      | 7                       | 4.9%                      | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 53-3033 | Light Truck Drivers  | 1.16%                     | \$18.32                      | 164                   | 134                   | 137                   | -29                     | -18.0%                    | 2                       | 1.8%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 51-4031 | Cutting, Punching, and Press Machine Setters,<br>Operators, and Tenders, Metal and Plastic                             | 1.15%                     | \$22.20                      | 120                   | 132                   | 137                   | 12                      | 10.4%                     | 4                       | 3.2%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers   | 1.10%                     | \$39.70                      | 86                    | 127                   | 132                   | 41                      | 47.5%                     | 5                       | 4.3%                      | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |

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| soc     | Transportation and Warehousing   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers  | 28.91%                    | \$23.40                      | 2521                  | 2666                  | 2898                  | 145                     | 5.8%                      | 232                     | 8.7%                      | Postsecondary nondegree award           | Short-term on-<br>the-job training      | None                           |
| 53-7062 | Laborers and Freight, Stock, and Material<br>Movers, Hand  | 15.03%                    | \$18.04                      | 1211                  | 1386                  | 1550                  | 175                     | 14.5%                     | 164                     | 11.8%                     | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 53-7065 | Stockers and Order Fillers   | 9.90%                     | \$17.52                      | 189                   | 913                   | 963                   | 725                     | 384.3%                    | 49                      | 5.4%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 53-7051 | Industrial Truck and Tractor Operators   | 8.14%                     | \$21.93                      | 459                   | 751                   | 831                   | 292                     | 63.5%                     | 80                      | 10.7%                     | No formal<br>educational<br>credential  | Short-term on-<br>the-job training      | None                           |
| 53-3033 | Light Truck Drivers  | 6.73%                     | \$18.32                      | 344                   | 620                   | 714                   | 276                     | 80.3%                     | 94                      | 15.1%                     | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 53-3052 | Bus Drivers, Transit and Intercity   | 3.79%                     | \$23.55                      | 88                    | 349                   | 396                   | 262                     | 299.1%                    | 46                      | 13.3%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 53-1047 | First-Line Supervisors of Transportation and<br>Material Moving Workers, Except Aircraft Cargo<br>Handling Supervisors | 3.06%                     | \$28.57                      | 220                   | 283                   | 318                   | 63                      | 28.7%                     | 36                      | 12.6%                     | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 43-5071 | Shipping, Receiving, and Inventory Clerks  | 2.34%                     | \$18.77                      | 156                   | 215                   | 223                   | 59                      | 37.9%                     | 8                       | 3.7%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 43-5032 | Dispatchers, Except Police, Fire, and Ambulance  | 1.95%                     | \$22.52                      | 159                   | 180                   | 202                   | 21                      | 13.1%                     | 23                      | 12.5%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 49-3031 | Bus and Truck Mechanics and Diesel Engine<br>Specialists   | 1.68%                     | \$29.49                      | 173                   | 155                   | 169                   | -18                     | -10.4%                    | 13                      | 8.7%                      | High school<br>diploma or<br>equivalent | Long-term on-the-<br>job training       | None                           |
| 11-3071 | Transportation, Storage, and Distribution Managers   | 1.64%                     | \$46.04                      | 89                    | 152                   | 170                   | 63                      | 70.5%                     | 19                      | 12.3%                     | High school<br>diploma or<br>equivalent | None                                    | 5 years or more                |
| 43-9061 | Office Clerks, General   | 1.53%                     | \$18.81                      | 148                   | 141                   | 154                   | -7                      | -4.7%                     | 13                      | 8.9%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 11-1021 | General and Operations Managers  | 1.41%                     | \$47.50                      | 100                   | 130                   | 154                   | 30                      | 30.2%                     | 23                      | 17.8%                     | Bachelor's degree                       | None                                    | 5 years or more                |
| 43-1011 | First-Line Supervisors of Office and<br>Administrative Support Workers   | 1.14%                     | \$29.77                      | 86                    | 105                   | 117                   | 20                      | 22.9%                     | 12                      | 11.1%                     | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 43-4051 | Customer Service Representatives   | 0.93%                     | \$18.77                      | 81                    | 86                    | 94                    | 4                       | 5.1%                      | 8                       | 9.7%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks   | 0.85%                     | \$23.15                      | 70                    | 78                    | 82                    | 9                       | 12.8%                     | 4                       | 5.0%                      | Some college, no degree                 | Moderate-term<br>on-the-job<br>training | None                           |

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| soc     | Transportation and Warehousing (cont.)   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 49-9071 | Maintenance and Repair Workers, General  | 0.85%                     | \$23.74                      | 69                    | 78                    | 88                    | 9                       | 13.6%                     | 10                      | 12.8%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 43-6014 | Secretaries and Administrative Assistants,<br>Except Legal, Medical, and Executive                     | 0.71%                     | \$22.48                      | 69                    | 66                    | 69                    | -3                      | -5.0%                     | 4                       | 5.6%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 43-5061 | Production, Planning, and Expediting Clerks  | 0.66%                     | \$25.19                      | 32                    | 61                    | 68                    | 29                      | 91.0%                     | 7                       | 11.5%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 43-5111 | Weighers, Measurers, Checkers, and Samplers, Recordkeeping   | 0.62%                     | \$17.65                      | 41                    | 58                    | 61                    | 17                      | 41.6%                     | 3                       | 5.4%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 53-4031 | Railroad Conductors and Yardmasters  | 0.59%                     | \$28.50                      | 38                    | 55                    | 66                    | 16                      | 42.7%                     | 11                      | 20.1%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 41-3091 | Sales Representatives of Services, Except<br>Advertising, Insurance, Financial Services, and<br>Travel | 0.58%                     | \$27.20                      | 42                    | 54                    | 60                    | 12                      | 29.0%                     | 6                       | 11.4%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 43-4151 | Order Clerks   | 0.57%                     | \$18.80                      | 19                    | 53                    | 53                    | 33                      | 170.4%                    | 0                       | 0.0%                      | Some college, no degree                 | Short-term on-<br>the-job training      | None                           |
| 11-9199 | Managers, All Other  | 0.57%                     | \$39.74                      | 42                    | 53                    | 59                    | 10                      | 24.4%                     | 7                       | 13.0%                     | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 53-4011 | Locomotive Engineers   | 0.56%                     | \$44.19                      | 33                    | 52                    | 63                    | 19                      | 57.0%                     | 11                      | 21.8%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | Less than 5<br>years           |
| 53-3031 | Driver/Sales Workers   | 0.48%                     | \$18.16                      | 15                    | 45                    | 51                    | 30                      | 195.6%                    | 6                       | 13.8%                     | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers   | 0.46%                     | \$39.70                      | 31                    | 43                    | 48                    | 12                      | 37.0%                     | 5                       | 11.3%                     | High school<br>diploma or<br>equivalent | None                                    | Less than 5<br>years           |
| 13-1199 | Business Operations Specialists, All Other   | 0.45%                     | \$32.61                      | 21                    | 42                    | 48                    | 21                      | 97.2%                     | 6                       | 13.4%                     | Bachelor's degree                       | None                                    | None                           |
| 13-1151 | Training and Development Specialists   | 0.45%                     | \$34.85                      | 18                    | 41                    | 46                    | 23                      | 126.6%                    | 5                       | 11.9%                     | Bachelor's degree                       | None                                    | Less than 5<br>years           |
| 53-6061 | Passenger Attendants   | 0.42%                     | \$17.70                      | 62                    | 38                    | 40                    | -23                     | -37.8%                    | 1                       | 2.8%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 13-1071 | Human Resources Specialists  | 0.37%                     | \$35.15                      | 16                    | 35                    | 40                    | 18                      | 110.7%                    | 5                       | 15.4%                     | Bachelor's degree                       | None                                    | None                           |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers   | 0.34%                     | \$19.80                      | 21                    | 31                    | 33                    | 10                      | 47.3%                     | 2                       | 6.9%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |
| 13-1081 | Logisticians   | 0.34%                     | \$45.44                      | 16                    | 31                    | 38                    | 15                      | 90.4%                     | 6                       | 20.7%                     | Bachelor's degree                       | None                                    | None                           |
| 43-3021 | Billing and Posting Clerks   | 0.33%                     | \$20.03                      | 27                    | 30                    | 32                    | 3                       | 12.8%                     | 2                       | 6.9%                      | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |

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| soc     | Transportation and Warehousing (cont.)   | % Industry<br>Jobs (2022) | Median<br>Hourly<br>Earnings | 2017 Industry<br>Jobs | 2022 Industry<br>Jobs | 2027 Industry<br>Jobs | Change<br>(2017 - 2022) | % Change<br>(2017 - 2022) | Change<br>(2022 - 2027) | % Change<br>(2022 - 2027) | Typical Entry<br>Level Education        | Typical On-The-<br>Job Training         | Work<br>Experience<br>Required |
|---------|--|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|---------------------------|-------------------------|---------------------------|---|---|--------------------------------|
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                                      | 0.32%                     | \$17.09                      | 30                    | 29                    | 35                    | -1                      | -4.5%                     | 6                       | 19.8%                     | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 49-3011 | Aircraft Mechanics and Service Technicians   | 0.30%                     | \$38.81                      | 6                     | 28                    | 32                    | 22                      | 345.5%                    | 4                       | 13.2%                     | Postsecondary nondegree award           | None                                    | None                           |
| 53-7063 | Machine Feeders and Offbearers   | 0.27%                     | \$21.79                      | 28                    | 25                    | 28                    | -3                      | -10.1%                    | 3                       | 13.6%                     | No formal educational credential        | Short-term on-<br>the-job training      | None                           |
| 49-3023 | Automotive Service Technicians and Mechanics   | 0.25%                     | \$22.40                      | 14                    | 23                    | 27                    | 8                       | 58.8%                     | 4                       | 19.1%                     | Postsecondary nondegree award           | Short-term on-<br>the-job training      | None                           |
| 43-5011 | Cargo and Freight Agents   | 0.24%                     | \$21.48                      | 21                    | 22                    | 23                    | 1                       | 4.7%                      | 2                       | 7.8%                      | High school<br>diploma or<br>equivalent | Short-term on-<br>the-job training      | None                           |
| 41-4012 | Sales Representatives, Wholesale and<br>Manufacturing, Except Technical and Scientific<br>Products | 0.22%                     | \$34.21                      | 19                    | 21                    | 23                    | 2                       | 10.1%                     | 3                       | 12.9%                     | High school<br>diploma or<br>equivalent | Moderate-term<br>on-the-job<br>training | None                           |

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|          | Not Include  | d in 2023-2024                           | In Demand List                           |
|----------|--|--|--|
| soc      | Occupation   | Industry                                 | Reason for Removal                       |
| 31-9097  | Phlebotomists  | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations    |
| 29-2032  | Diagnostic Medical Sonographers  | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations    |
| 43-4111  | Interviewers, Except Eligibility and Loan  | Health Care and Social<br>Assistance     | Negative Projected Growth                |
| 21-1029  | Social Workers, All Other  | Health Care and Social Assistance        | Not in Top 50 of Industry Occupations    |
| 29-1224  | Radiologists   | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations    |
| 49-2098  | Security and Fire Alarm Systems Installers   | Construction                             | Not in Top 50 of Industry Occupations    |
| 147-3015 | HelpersPipelayers, Plumbers, Pipefitters, and<br>Steamfitters  | Construction                             | Not in Top 50 of Industry Occupations    |
| 17-3011  | Architectural and Civil Drafters   | Construction                             | Not in Top 50 of Industry Occupations    |
| 47-3013  | HelpersElectricians  | Construction                             | Not in Top 50 of Industry Occupations    |
| 45-4011  | Forest and Conservation Workers  | Agriculture Forestry Fishing and Hunting | Not in Top 50 of Industry Occupations    |
| 51-9012  | Separating, Filtering, Clarifying, Precipitating, and Still<br>Machine Setters, Operators, and Tenders | Manufacturing                            | Negative Projected Growth                |
| 51-7042  | Woodworking Machine Setters, Operators, and<br>Tenders, Except Sawing                                  | Manufacturing                            | Not in Top 50 of Industry Occupations    |
| 43-5021  | Couriers and Messengers  | Transportation and Warehousing           | Median Hourly Earnings less than \$17.01 |
| 15-1299  | Computer Occupations, All Other  | Transportation and Warehousing           | Not in Top 50 of Industry Occupations    |

|         | Added to  | 2023-2024 In D                           | emand List  |
|---------|---|--|---|
| soc     | Occupation  | Industry                                 | Reason Not Included Previously                                      |
| 43-4171 | Receptionists and Information Clerks  | Health Care and Social Assistance        | Median Hourly Earnings less than \$17.01                            |
| 31-9099 | Healthcare Support Workers, All Other   | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations                               |
| 21-1019 | Counselors, All Other   | Health Care and Social Assistance        | Not in Top 50 of Industry Occupations                               |
| 31-9093 | Medical Equipment Preparers   | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations                               |
| 29-1051 | Pharmacists   | Health Care and Social Assistance        | Not in Top 50 of Industry Occupations                               |
| 29-1215 | Family Medicine Physicians  | Health Care and Social<br>Assistance     | Not in Top 50 of Industry Occupations                               |
| 47-2081 | Drywall and Ceiling Tile Installers   | Construction                             | Negative Projected Growth   |
| 47-2051 | Cement Masons and Concrete Finishers  | Construction                             | Negative Projected Growth   |
| 47-2211 | Sheet Metal Workers   | Construction                             | Negative Projected Growth   |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand                        | Construction                             | Median Hourly Earnings less than \$17.01                            |
| 47-2171 | Reinforcing Iron and Rebar Workers  | Construction                             | Negative Projected Growth   |
| 47-2121 | Glaziers  | Construction                             | Negative Projected Growth   |
| 47-2131 | Insulation Workers, Floor, Ceiling, and Wall                                  | Construction                             | Not in Top 50 of Industry Occupations                               |
| 47-2042 | Floor Layers, Except Carpet, Wood, and Hard Tiles                             | Construction                             | Not in Top 50 of Industry Occupations                               |
| 47-2021 | Brickmasons and Blockmasons   | Construction                             | Not in Top 50 of Industry Occupations                               |
| 49-9052 | Telecommunications Line Installers and Repairers                              | Construction                             | Not in Top 50 of Industry Occupations, Negative Projected Growth    |
| 49-3042 | Mobile Heavy Equipment Mechanics, Except Engines                              | Construction                             | Not in Top 50 of Industry Occupations                               |
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers | Construction                             | Negative Projected Growth   |
| 47-2151 | Pipelayers  | Construction                             | Not in Top 50 of Industry Occupations                               |
| 45-2091 | Agricultural Equipment Operators  | Agriculture Forestry Fishing and Hunting | Median Hourly Earnings less than \$17.01                            |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand                        | Agriculture Forestry Fishing and Hunting | Median Hourly Earnings less than \$17.01                            |
| 51-9111 | Packaging and Filling Machine Operators and Tenders                           | Agriculture Forestry Fishing and Hunting | Negative Projected Growth   |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                 | Agriculture Forestry Fishing and Hunting | Negative Projected Growth, Median Hourly Earnings less than \$17.01 |
| 19-4012 | Agricultural Technicians  | Agriculture Forestry Fishing and Hunting | Negative Projected Growth   |
| 43-5071 | Shipping, Receiving, and Inventory Clerks                                     | Agriculture Forestry Fishing and Hunting | Negative Projected Growth   |
| 45-2011 | Agricultural Inspectors   | Agriculture Forestry Fishing and Hunting | Negative Projected Growth, Median Hourly Earnings less than \$17.01 |
| 13-1074 | Farm Labor Contractors  | Agriculture Forestry Fishing and Hunting | Not in Top 50 of Industry Occupations                               |
| 53-7065 | Stockers and Order Fillers  | Agriculture Forestry Fishing and Hunting | Median Hourly Earnings less than \$17.01                            |
| 37-3012 | Pesticide Handlers, Sprayers, and Applicators, Vegetation                     | Agriculture Forestry Fishing and Hunting | Negative Projected Growth   |

|         |  | Added (cont.)                               |   |
|---------|--|---|---|
| soc     | Occupation   | Industry                                    | Reason Not Included Previously  |
| 43-3051 | Payroll and Timekeeping Clerks   | Agriculture Forestry Fishing and<br>Hunting | Negative Projected Growth   |
| 11-3031 | Financial Managers   | Agriculture Forestry Fishing and Hunting    | Not in Top 50 of Industry Occupations   |
| 51-9111 | Packaging and Filling Machine Operators and Tenders  | Manufacturing                               | Negative Projected Growth   |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand                                     | Manufacturing                               | Negative Projected Growth, Median Hourly Earnings less than \$17.01   |
| 51-3092 | Food Batchmakers   | Manufacturing                               | Median Hourly Earnings less than \$17.01  |
| 51-9196 | Paper Goods Machine Setters, Operators, and Tenders  | Manufacturing                               | Negative Projected Growth   |
| 53-7065 | Stockers and Order Fillers   | Manufacturing                               | Median Hourly Earnings less than \$17.01  |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                              | Manufacturing                               | Median Hourly Earnings less than \$17.01  |
| 51-9041 | Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders       | Manufacturing                               | Not in Top 50 of Industry Occupations   |
| 51-4031 | Cutting, Punching, and Press Machine Setters,<br>Operators, and Tenders, Metal and Plastic | Manufacturing                               | Negative Projected Growth   |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand                                     | Transportation and Warehousing              | Median Hourly Earnings less than \$17.01  |
| 53-7065 | Stockers and Order Fillers   | Transportation and Warehousing              | Median Hourly Earnings less than \$17.01  |
| 43-5071 | Shipping, Receiving, and Inventory Clerks  | Transportation and Warehousing              | Negative Projected Growth   |
| 43-4151 | Order Clerks   | Transportation and Warehousing              | Negative Projected Growth   |
| 53-3031 | Driver/Sales Workers   | Transportation and Warehousing              | Not in Top 50 of Industry Occupations   |
| 53-6061 | Passenger Attendants   | Transportation and Warehousing              | Not in Top 50 of Industry Occupations, Negative Projected Growth,<br>Median Hourly Earnings less than \$17.01 |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners                              | Transportation and Warehousing              | Median Hourly Earnings less than \$17.01  |
| 43-5011 | Cargo and Freight Agents   | Transportation and Warehousing              | Not in Top 50 of Industry Occupations   |