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In-Demand Industries and Occupations Report

Maricopa County

FOR FURTHER INFORMATION:

Doug Walls, Labor Market Information Director, 602.771.1258 Sam Briggs, Economist, 602.364.0430 www.laborstats.az.gov

ABOUT THIS REPORT

The In-Demand Industry and Occupation Report was created to assist Arizona Local Workforce Development Areas (local areas) in completing their 2020-2024 Local Workforce Development Plans. The information provided in this report is meant to act as a guide for local areas and does not necessarily include an exhaustive list of all considerations or labor market information that could be used in the in-demand industry and occupation selection process. The report is not meant to impede the local workforce board's to selection of their own in-demand industries and occupations, only to assist in the selection process.

The report identifies key industries and occupations within the local economy using labor market information. The report also includes several recommendations for consideration during the in-demand industry and occupation identification process. The methodology used to identify potential industries and occupations is consistent with the methodology used by the Workforce Arizona Council and is included in the appendix of this report.

ABOUT THE ARIZONA OFFICE OF ECONOMIC OPPORTUNITY

The Office of Economic Opportunity (OEO) was created to strengthen the analytical capabilities of the state's workforce and economic development initiatives. OEO serves as Arizona's workforce planning coordinator, and in this role, provides operational, strategic and research support to the Workforce Arizona Council and other key workforce partners. OEO produces official statewide data for population, employment, and wage estimates including the official Arizona employment and population projections. OEO also functions in an advisory capacity by providing economic expertise to state and local government agencies and officials.

Why In-Demand Selection Matters

Selecting in-demand industries and occupations will (in part) determine:

- The allocation of training resources for WIOA program participants
- Local workforce board membership
- Business service engagement efforts
- The targeted career pathways for WIOA program participants
- The educational program approval for the eligible workforce training providers

Selection Considerations

The methodology used to produce the in-demand industry and occupation rankings provides flexibility that allows local areas to customize and ultimately take ownership of the selection process. Local areas should consider several key decision points when identifying in-demand industries and occupations.

1. Alignment between local and state in-demand industries (How much overlap with the state in-demand industries should your local area have?)

Alignment with state-selected in-demand industries will help align strategies and pool resources. Given the unique nature of each local area economy and workforce, it is unlikely that all local area in-demand industries would align with state- selected in-demand industries. However, when feasible, local areas should consider whether an industry aligns with those selected as a state indemand industry.

OEO recommends that at least 2-3 local area in-demand industries overlap with state local area in-demand industries.

2. Selecting the best number of in-demand industries (How many industries should be selected for "in-demand" status)

Every industry within a local area is important to the success of its local economy, which can make it difficult to limit the number of in-demand industries selected. However, if a local workforce board selects too many industries, it could stretch workforce resources too thin, and limit their effectiveness. Local areas should consider the effectiveness of available workforce resources during the in-demand industry selection process.

OEO recommends that in-demand industry employment make up less than 50% of total employment within your local area.

3. Alignment between in-demand industries and in-demand occupations (Will your in-demand occupations align with in-demand industries?)

Alignment between job seeker and business services objectives can help streamline processes and leverage existing resources. Ensuring that in-demand occupations align with in-demand industries is one way to help improve alignment strategies. This can be done by only considering occupations that appear within in-demand industries for in-demand occupation status. During the state-selection process, this was the approach to identifying in-demand occupations that was adopted. OEO recommends that in-demand occupations directly support in-demand industries.

4. Defining in-demand industries using standard industry codes

It is recommended that local areas use the NAICS (North American Industry Classification System) and SOC (Standard Occupational Classification) systems when defining in-demand industries and occupations. Using a defined classification system will allow local areas to track employment outcome metrics easily and compare outcomes with the state and other local areas. The Dept. of Labor uses SOC and NAICS codes to define occupation and industry outcomes and trainings. In addition, many of the federal agencies who produce key labor market information produce estimates by NAICS and SOC codes. By defining in-demand industries and occupations according to these two systems, local workforce areas will ensure that they can measure and communicate workforce results effectively.

5. Employer and workforce partner insights

There are numerous factors to consider during the in-demand industry and occupation selection process. While labor market information can help identify key trends, it cannot capture the complexity of a local area's economy in its entirety. Local businesses and other workforce partners are invaluable resources who can help strengthen the decision-making process.

OEO encourages local workforce areas to use labor market information alongside business and partner insights.

Maricopa Workforce Area Industry Rankings

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Industry	Overall	Employr Level (2		Histor Employ Annual F Chai (2015-2	yment Percent nge	Projec Employ Numeric ((2018-2	ment Change	Proje Emplo Annual Cha (2018-	yment Percent nge	Average A Wage (2		Historica Annual F Char (2015-2	Percent nge	Employment and Wage LQ ¹
Title	Rank	Estimate	Rank	Estimate	Rank	Estimate	Rank	Estimate	Rank	Estimate	Rank	Estimate	Rank	Rank
Construction	1	70,200	6	9.3%	2	10,422	3	7.4%	1	\$64,844	10	3.5%	2	7
Administrative and waste services	2	93,956	3	6.4%	6	12,934	2	6.7%	2	\$41,652	16	2.8%	5	2
Health care and social assistance	3	149,079	2	6.7%	5	17,748	1	5.8%	5	\$56,212	12	0.1%	16	4
Information Technology	4	12,075	15	8.9%	4	1,611	12	6.3%	3	\$92,872	3	4.8%	1	12
Finance and insurance	5	70,973	5	9.1%	3	6,031	6	4.2%	9	\$74,828	9	1.5%	10	7
Manufacturing	6	76,213	4	2.9%	13	7,258	4	4.7%	8	\$76,752	7	0.5%	14	5
Professional and technical services	7	60,564	7	5.1%	9	5,742	7	4.7%	7	\$89,128	5	0.6%	12	16
Retail trade	8	157,398	1	2.5%	15	6,376	5	2.2%	15	\$35,828	19	2.0%	8	1
Wholesale trade	9	36,319	8	2.6%	14	3,051	9	4.1%	10	\$82,056	6	1.3%	11	12
Transportation and warehousing	10	30,106	10	12.2%	1	2,989	10	5.6%	6	\$51,532	13	-1.3%	18	15
Real estate and rental and leasing	11	20,441	14	3.7%	10	1,479	14	3.6%	11	\$60,736	11	2.7%	6	7
Other services, except public administration	12	28,732	11	3.7%	11	1,987	11	2.7%	14	\$40,612	17	2.8%	4	11
Educational services	13	33,686	9	5.9%	7	4,967	8	2.7%	13	\$43,160	15	-0.4%	17	7
Information	14	22,997	13	3.7%	12	1,383	15	2.8%	12	\$75,764	8	2.4%	7	17
Management of companies and enterprises	15	10,935	16	-1.1%	17	1,491	13	6.3%	4	\$90,376	4	0.6%	13	19
Utilities	16	3,610	18	1.9%	16	160	17	1.1%	17	\$114,920	1	0.2%	15	2
Arts, entertainment, and recreation	17	24,281	12	5.4%	8	1,055	16	1.9%	16	\$46,072	14	-2.8%	19	5
Mining, quarrying, and oil and gas extraction	18	458	19	-10.4%	19	5	18	0.5%	18	\$94,848	2	1.7%	9	18
Agriculture, forestry, fishing and hunting	19	5,008	17	-1.7%	18	-59	18	-0.4%	19	\$39,676	18	3.3%	3	14
Accommodation and food services	*	113,706	*	3.2%	*	8,609	*	3.7%	*	\$23,660	*	3.9%	*	*

NOTE: Industry sectors with an asterisk (*) were excluded from the rankings because of low wages

¹ Employment Location Quotient and Wage Location Quotient were combined into one variable.

² The Information Technology industry combines the following NAICS industry codes: 51121 Software publishers; 51741 Satellite telecommunications; 51791 Other

telecommunications; 51821 Data processing, hosting, and related services; and 51913 Internet publishing and broadcasting and web search portals. Source: Office of Economic Opportunity

The table above ranks local area industries by several employment and wage estimates. OEO developed industry rankings for state and local workforce area selection. Industry rankings were developed accordingly:

- Industries were assigned an overall rank based on each of the employment and wage estimates listed in the table.
- Rankings for each of the employment and wage estimates are also provided in the table for comparison purposes.
- An industry with an asterisk (*) in the rank column was removed from consideration due to low annual wage levels.
- The ranking methodology and variable descriptions are provided in the methodology section of this report.

Summary Statistics for Maricopa Workforce Area In-Demand Selection

In Demand Group	Share of Total Area Employment	Employment Level (2018)	Historical Employment Growth (2015 to 2018)	Projcted Industry Growth (2018 to 2020)	Industry Average Annual Wage (2018)	Historical Annualized Wage Growth (2015 to 2018)
Top 4	32%	325,310	7.3%	6.4%	\$60,000	1.8%
Top 6	47%	472,496	6.8%	5.8%	\$59,775	1.5%
Top 8	69%	726,777	5.7%	4.9%	\$56,057	1.6%

Note: Maricopa Workforce Area represents Maricopa County less City of Phoenix. Source: Office of Economic Opportunity

It can be a useful exercise to review employment and wage estimates for various combinations of industry selections. The table above lists the combined employment and wage estimates for three scenarios:

- If the top 4 ranked industries were selected : Construction; Administrative and Waste Service; Health Care and Social Services; and Information Technology
- If the top 6 ranked industries were selected: Construction; Administrative and Waste Service; Health Care and Social Services; Information Technology; Finance and Insurance; and Manufacturing.
- If the top 8 ranked industries were selected: Construction; Administrative and Waste Service; Health Care and Social Services; Information Technology; Finance and Insurance; Manufacturing; Professional and Technical Services; and Retail Trade.

Note: It is not necessary to select industries in the order in which they were ranked (Ex. selecting 1st through 4th ranked industries before selecting the 5th ranked industry). If a local area can provide justification, a local area may select a low-ranked industry, while excluding a high-ranked industry. (Ex. Selecting the 1st through 3rd ranked industries and 5th ranked industry, while excluding the 4th ranked industry).

Maricopa Workforce Area Employment Level and Share of Total Area Employment

Industry	Rank	Employment Level (2018)	Employment Share (2018)
Construction	1	70,200	7.0%
Administrative and waste services	2	93,956	9.4%
Health care and social assistance	3	149,079	14.9%
Information technology ¹	4	12,075	1.2%
Finance and insurance	5	70,973	7.1%
Manufacturing	6	76,213	7.6%
Professional and technical services	7	60,564	6.0%
Retail trade	8	157,398	15.7%
Wholesale trade	9	36,319	3.6%
Transportation and warehousing	10	30,106	3.0%
Real estate and rental and leasing	11	20,441	2.0%
Other services, except public administration	12	28,732	2.9%
Educational services	13	33,686	3.4%
Management of companies and enterprises	14	10,935	1.1%
Utilities	15	3,610	0.4%
Arts, entertainment, and recreation	16	24,281	2.4%
Mining, quarrying, and oil and gas extraction	17	458	0.0%
Agriculture, forestry, fishing and hunting	18	5,008	0.5%
Accommodation and food services	*	113,706	11.3%

Note: Maricopa Workforce Area represents Maricopa County less City of Phoenix.

NOTE: Industry sectors with an asterisk (*) were excluded from the rankings because of low wages Source: Office of Economic Opportunity

The table above lists employment levels and each industries share of total area employment. The table is provided to help identify the number of jobs and share of total employment that would be effected by including or excluding each industry.

Top-Ranked Industries - Arizona and Maricopa Workforce Area

Arizona			Maricopa Workforce Area				
Rank	Industry Title		Industry Title				
1	Construction	1	Construction				
2	Health care and social assistance	2 Administrative and waste services					
3	Professional and technical services	3	Health care and social assistance				
4	Information technology ¹	4	Information technology ¹				
5	Finance and insurance	5	Finance and insurance				
6	Manufacturing	6	Manufacturing				
7	Administrative and waste services	7 Professional and technical services					
8	Transportation and warehousing	8	Retail trade				
9	Real estate and rental and leasing	9	Wholesale trade				
10	Wholesale trade	10 Transportation and warehousing					
11	Retail trade	11	Real estate and rental and leasing				
12	Other services, except public administration	12 Other services, except public administra					
13	Educational services	13 Educational services					
14	Arts, entertainment, and recreation	14 Management of companies and enterp					
15	Mining, quarrying, and oil and gas extraction	on 15 Utilities					
16	Management of companies and enterprises	s 16 Arts, entertainment, and recreation					
17	Agriculture, forestry, fishing and hunting	17 Mining, quarrying, and oil and gas extra					
18	Utilities	18	Agriculture, forestry, fishing and hunting				
N/A	Accommodation and food services	N/A	Accommodation and food services				

¹The Information Technology industry combines the following NAICS industry codes: 51121 Software publishers; 51741 Satellite telecommunications; 51791 Other telecommunications; 51821 Data processing, hosting, and related services; and 51913 Internet publishing and broadcasting and web search portals.

NOTE: Maricopa Workforce Area represents Maricopa County less City of Phoenix.

Source: Office of Economic Opportunity

The table above lists industry rankings for the state and your local area, respectively. Here are a few things to consider when reviewing this table:

- During the in-demand industry selection process, the Workforce Arizona Council selected seven industries for in-demand designation. These industries are the top seven ranked industries in the table above (Construction; Healthcare and social assistance; Professional and technical services; Information Technology; Finance and insurance; Manufacturing and Transportation and warehousing
- In total, the seven in-demand industries selected at the state level represent 52% of total state employment.
- There is significant overlap between the industries selected by the Workforce Arizona Council and the topranked industries in the Maricopa Workforce local area.

Maricopa Workforce Area Occupation Rankings

In addition to providing local area industry rankings, OEO has also provided occupational ratings. A list of the occupation ratings is available on page 10 of this report. The occupations provided in this report were limited to occupations that are key to the top six ranked industries within the local area. This was done for brevity, as there are nearly 800 unique occupations. If a local area selects an industry category not included in the top six ranked industries, OEO is happy to provide the list of occupations key to that industry as well.

Occupation ratings were developed accordingly:

- 1. Occupations were assigned a star ranking value ranging from one to five, with five being the highest rating.
- 2. Star ratings were based on employment level, projected employment growth and average wage level.
- 3. Occupations were rated by educational requirement, which means occupations were only compared against other occupations with the same education requirement.
- 4. The top occupations within each education requirement category received a star rating of five, while the bottom occupations received a star rating of one.
- 5. Only occupations associated with an in-demand industry were considered for "in-demand" status.

The occupations in the ratings table were not limited by star ranking, although OEO recommends that local areas select their own cutoff for occupations. The cutoff can be determined based on the star rating of each occupation or other labor market factors. As an example, the in-demand task force led by the Workforce Arizona Council decided to limit the in-demand occupations list to those occupations with a ranking of 5 to 3 stars.

Star Rating	Number of Occupations	Employment Level (2018)	Projected Employment Growth (2018 to 2020)	Share of Total Area Employment (2018)	Average Annual Wage (2018)
5	24	12,333	4.6%	23%	\$47,895
4 to 5	45	22,445	3.6%	41%	\$50,051
3 to 5	66	30,799	3.3%	57%	\$50,824
2 to 5	88	35,394	3.2%	65%	\$49,901
1 to 5	112	38,596	3.0%	71%	\$49,987

Summary Statistics for Maricopa Workforce Area In-Demand Selection

Note: Maricopa Workforce Area represents Maricopa County less City of Phoenix Source: Office of Economic Opportunity

It can be a useful exercise to review employment and wage estimates by star rating categories. This allows local areas to review the number of occupations and total employees being considered for in-demand status. It also allows local areas to understand employment growth and wage level differences between occupations within star rating categories. The table above lists the combined employment and wage estimates for five different selections ranging from selecting only five-star occupations to selecting all one- through five-star occupations.