



# Labor Market Analysis: 0952.00 – Construction Crafts Technology 46.0415 – Building Construction Technology/Technician Craft Construction Technology –Certificate requiring 16 to <30 semester units Los Angeles Center of Excellence, May 2026

Program Endorsement:	Endorsed: All Criteria Met <input checked="" type="checkbox"/>	Endorsed: Some Criteria Met <input type="checkbox"/>	Not Endorsed <input type="checkbox"/>
<b>Program Endorsement Criteria</b>			
<b>Supply Gap:</b>	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
<b>Living Wage:</b> (Entry-Level, 25 <sup>th</sup> )	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
<b>Education:</b>	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
<b>Emerging Occupation(s)</b>			
	Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>

## SUMMARY

This report analyzes whether local labor market demand is being met by community college programs aligned with the identified middle-skill occupations<sup>1</sup> or whether a shortage of workers exists. Labor market demand is measured by annual job openings while education supply is measured by the number of awards (degrees and certificates) conferred on average each year.

Based on the available data, there appears to be a supply gap for the two identified middle-skill occupations in the region. Furthermore, the majority of annual openings have entry-level wages that exceed the self-sufficiency standard wage in both Los Angeles and Orange counties, and approximately one-third of current workers in the field have completed some college or an associate degree as their highest level of education attainment.

**Recommendation:** Due to all three program endorsement criteria being met, the Los Angeles Center of Excellence for Labor Market Research (LA COE) endorses this proposed program.

## Key Findings

### Supply Gap

- 3,426 annual job openings are projected in the region through 2029. This number is greater than the three-year average of 386 awards conferred by educational institutions in the region.

<sup>1</sup> Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree. The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor’s degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

### **Living Wage**

- 50% of annual job openings for these middle-skill construction technology occupations have entry-level wages **above** Los Angeles County’s self-sufficiency standard hourly wage (\$24.03/hour). <sup>2</sup>

### **Educational Attainment**

- 52% of the annual job openings typically require a high school diploma or equivalent for middle-skill occupations related to construction technology in the LA/OC region.
- 29%-31% of workers in the field have completed some college or an associate degree, according to national educational attainment data.

### **Community college supply**

- 11 community colleges issued awards related to construction technology in the greater LA/OC region.
- 385 awards (degrees and certificates) were conferred on average each year between 2023 and 2025.

### **Other postsecondary supply**

- 1 educational institution in the LA/OC region has conferred awards in programs related to construction technology over the past three years.
- 1 award was conferred on average each year by other postsecondary institutions throughout the greater LA/OC region between 2022 and 2024.

## **TARGET OCCUPATIONS**

LA COE prepared this report to provide regional labor market and postsecondary supply data related to two middle-skill occupations. Although *construction managers* typically require a bachelor’s degree, they are considered middle-skill because approximately one-third of workers in the field have completed some college or an associate degree. [For full occupation descriptions, please see Appendix.](#)

- **Construction Managers (11-9021)** <sup>3</sup>
- **First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)** <sup>4</sup>

## **OCCUPATIONAL DEMAND**

Exhibit 1 shows the five-year occupational demand projections for these middle-skill construction technology occupations. In the greater Los Angeles/Orange County region, the number of jobs related to these occupations is projected to increase by 1% through 2029. There will be more than 3,400 job openings per year through 2029 due to job growth and replacements. The majority of jobs in 2024 for these middle-skill construction technology occupations (68%) were located in Los Angeles County.

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<sup>2</sup> Center for Women’s Welfare, University of Washington. (2024). *The self-sufficiency standard for California 2024.* <http://selfsufficiencystandard.org/California>.

<sup>3</sup> [Construction Managers \(bls.gov\)](#)

<sup>4</sup> [First-Line Supervisors of Construction Trades and Extraction Workers \(bls.gov\)](#)

## Exhibit 1: Current employment and occupational demand, Los Angeles and Orange counties<sup>5</sup>

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	29,793	29,907	114	0%	2,297
Orange	14,171	14,484	313	2%	1,129
<b>Total</b>	<b>43,964</b>	<b>44,391</b>	<b>427</b>	<b>1%</b>	<b>3,426</b>

## Detailed Occupation Data

Exhibit 2 displays the current employment and projected occupational demand for each of the target occupations in Los Angeles County. The average percentage of workers aged 55+ across all occupations in the Los Angeles/Orange County region is 26%; occupations with a larger share of workers aged 55 and older typically have greater replacement needs to offset the amount of impending retirements. On average, 81% of workers across all occupations in California are employed full-time.

## Exhibit 2: Detailed employment and occupational demand, Los Angeles County<sup>6</sup>

Occupation	2024 Jobs	2029 Jobs	5-Yr % Change	Annual Openings	% Aged 55 and older	% Full Time Workers
Construction Managers	14,621	14,918	2%	1,151	34%	92%
First-Line Supervisors of Construction Trades and Extraction Workers	15,172	14,989	(1%)	1,145	33%	98%
<b>Total</b>	<b>29,793</b>	<b>29,907</b>	<b>0%</b>	<b>2,297</b>	<b>-</b>	<b>-</b>

## WAGES

The labor market endorsement in this report considers the entry-level hourly wages for these middle-skill construction technology occupations in Los Angeles County as they relate to the county's self-sufficiency standard wage. Orange County wages are included below in order to provide a complete analysis of the greater Los Angeles/Orange County region.

### Los Angeles County

The majority, 50%, of annual openings for these target occupations have entry-level wages below the self-sufficiency standard wage for one adult (\$24.03 in Los Angeles County). Typical entry-level hourly wages are in a range between \$22.22 and \$31.18. (Exhibit 3).

One occupation has entry-level wages above the self-sufficiency standard wage:

- *Construction managers*, \$31.18

Experienced workers can expect to earn wages between \$57.10 and \$65.81, which are higher than the self-sufficiency standard.

<sup>5</sup> Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

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### Exhibit 3: Earnings for occupations in Los Angeles County

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)	Median Annual Earnings*
Construction Managers	\$22.22	\$42.89	\$65.81	\$89,200
First-Line Supervisors of Construction Trades and Extraction Workers	\$31.18	\$42.94	\$57.10	\$89,300

\*Rounded to the nearest \$100

### Orange County

Both occupations have entry-level wages above the self-sufficiency standard wage for one adult (\$27.13 in Orange County). Typical entry-level hourly wages are in a range between \$36.17 and \$37.86 (Exhibit 4). Experienced workers can expect to earn wages between \$62.40 and \$77.07.

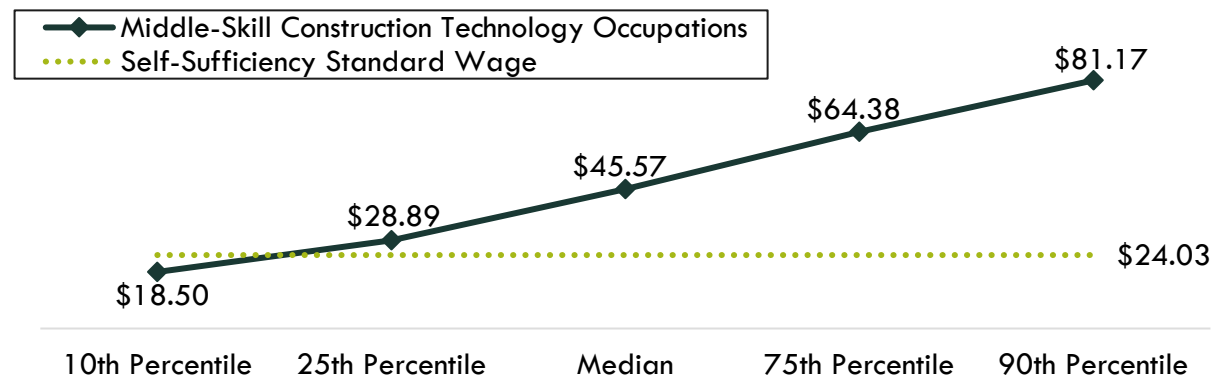
### Exhibit 4: Earnings for occupations in Orange County

Occupation	Entry-Level Hourly Earnings (25 <sup>th</sup> Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 <sup>th</sup> Percentile)	Median Annual Earnings*
Construction Managers	\$37.86	\$55.05	\$77.07	\$114,500
First-Line Supervisors of Construction Trades and Extraction Workers	\$36.17	\$47.79	\$62.40	\$99,400

\*Rounded to the nearest \$100

Across the greater Los Angeles and Orange County region, the average entry-level hourly earnings for the occupations in this report are \$28.89; this is above the living wage for one single adult in Los Angeles County (\$24.03). Exhibit 5 shows the average hourly wage for the occupations in this report, for entry-level to experienced workers.

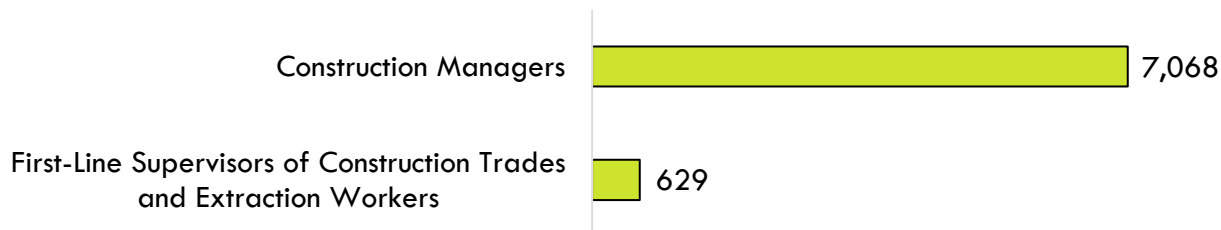
### Exhibit 5: Average hourly earnings for target occupations, Los Angeles and Orange counties



## JOB POSTINGS

There were 7,697 online job postings related to middle-skill construction technology occupations listed in the past 12 months in Los Angeles and Orange counties. Exhibit 6 displays the number of job postings by occupation. The majority of job postings (92%) were for *construction managers*, followed by *first-line supervisors of construction trades and extraction workers* (8%).

**Exhibit 6: Job postings by occupation (last 12 months), Los Angeles and Orange counties**



Job postings were analyzed for the most common job titles, skills, and employers associated with the target occupations in this report (Exhibit 7).

**Exhibit 7: Most commonly requested job titles, skills and employers in job postings, Los Angeles and Orange counties**

Top Job Titles	Top Skills	Top Employers
<ul style="list-style-type: none"> <li>Construction project managers</li> <li>Superintendents</li> <li>Construction managers</li> <li>Construction superintendents</li> <li>Project managers/construction managers</li> </ul>	<ul style="list-style-type: none"> <li>Construction</li> <li>Project management</li> <li>Subcontracting</li> <li>Construction management</li> <li>Project schedules</li> <li>Change orders</li> <li>Production documentation</li> <li>Construction submittals</li> <li>Procore</li> </ul>	<ul style="list-style-type: none"> <li>GPAC*</li> <li>CyberCoders*</li> <li>PageGroup*</li> <li>Woodcraft Rangers</li> <li>Jacobs Solutions</li> <li>Jobot*</li> <li>Bliss Car Wash</li> <li>Turner &amp; Townsend</li> <li>K2 Staffing*</li> </ul>

\*Staffing company

In the greater Los Angeles/Orange County region, 53% of the target occupations job postings listed a minimum educational requirement. Exhibit 8 details the number and percentage of job postings by educational level.

**Exhibit 8: Education levels requested in job postings target occupations, Los Angeles and Orange counties**

Education Level	Job Postings	% of Job Postings
Bachelor's degree	2,831	69%
Associate degree	253	6%
High school diploma or vocational training	1,015	25%

## EDUCATIONAL ATTAINMENT

In the greater Los Angeles/Orange County region, the majority of annual job openings (52%) typically require a high school diploma or equivalent (Exhibit 9). However, the national-level data indicates between 29% and 31% of workers in the field have completed some college or an associate degree as their highest level of educational attainment. The Bureau of Labor Statistics (BLS) lists the following typical entry-level education levels for the occupations in this report:

**Exhibit 9: Entry-level education preferred by employers nationally, Bureau of Labor Statistics**

Occupation	Education Level
Construction Managers	Bachelor's degree
First-Line Supervisors of Construction Trades and Extraction Workers	High school diploma or equivalent

## EDUCATIONAL SUPPLY

### Community College Supply

Exhibit 10 shows the annual and three-year average number of awards conferred by community colleges in the related TOP codes: Construction Crafts Technology (0952.00) and Civil and Construction Management Technology (0957.00). The colleges with the most completions in the region are LA Southwest, Orange Coast, and LA Trade-Tech.

**Exhibit 10: Regional community college awards (certificates and degrees), 2023-2025**

TOP Code	Program	College	2022-23 Awards	2023-24 Awards	2024-25 Awards	3-Year Average
0952.00	Construction Crafts Technology	El Camino	7	9	23	13
		LA Swest	75	97	104	92
		LA Trade-Tech	55	30	81	55
		Long Beach	29	34	72	45
		<b>LA Subtotal</b>	<b>166</b>	<b>170</b>	<b>280</b>	<b>205</b>
		Fullerton	16	24	39	26
		Orange Coast	41	67	75	61
		Santa Ana	14	47	1	21
		<b>OC Subtotal</b>	<b>71</b>	<b>138</b>	<b>115</b>	<b>108</b>
<b>Supply Subtotal/Average</b>			<b>237</b>	<b>308</b>	<b>395</b>	<b>313</b>
0957.00	Civil and Construction Management Technology	Citrus	9	2	15	9
		LA Valley	11	9	10	10
		Mt San Antonio	17	26	39	27
		Pasadena	-	2	4	2
		<b>LA Subtotal</b>	<b>37</b>	<b>39</b>	<b>68</b>	<b>48</b>
		Fullerton	17	27	23	22
		Santa Ana	1	4	-	2
		<b>OC Subtotal</b>	<b>18</b>	<b>31</b>	<b>23</b>	<b>24</b>
<b>Supply Subtotal/Average</b>			<b>55</b>	<b>70</b>	<b>91</b>	<b>72</b>
<b>Supply Total/Average</b>			<b>292</b>	<b>378</b>	<b>486</b>	<b>385</b>

Exhibit 11 displays the community college awards broken down by award type. In this case, the majority of awards issued by community colleges are certificates (45%).

**Exhibit 11: Community college awards by award type, 2023-2025**

Award Type	# of Awards	% of Awards
A.A./A.S. degrees	81	21%
Certificates	174	45%
Noncredit awards	130	34%
<b>Total</b>	<b>385</b>	<b>100%</b>

**Other Postsecondary Supply**

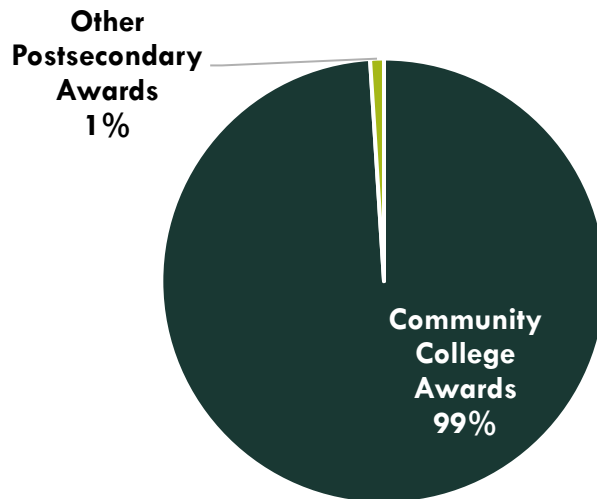
For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that provide training programs for middle-skill construction technology occupations. Exhibit 12 shows the number of awards conferred by one institution in relevant programs. Due to different data collection periods, the most recent data is from 2022 to 2024. Between 2022 and 2024, other postsecondary college institutions in the region conferred an average of 1 sub-baccalaureate award. Sub-baccalaureate awards include associate degrees, postsecondary awards, and other academic awards that typically take fewer than four years to complete. In the past three years there were no completions under the related CIP Code: Building Construction Technology/Technician (46.0415).

**Exhibit 12: Other regional postsecondary awards, 2022-2024**

CIP Code	Program	Postsecondary Institution	2021-22 Awards	2022-23 Awards	2023-24 Awards	3-Year Average
52.2001	Construction Management, General	Learnet Academy	3	-	-	1
<b>Supply Total/Average</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>1</b>

Exhibit 13 shows the proportion of community college awards conferred in the greater Los Angeles/Orange County region compared to the number of other postsecondary awards for the programs in this report. The majority of awards conferred in these programs are awarded by community colleges in the greater Los Angeles/Orange County region.

**Exhibit 13: Percentage of community college awards compared to other postsecondary institution awards in the Los Angeles/Orange County region**



## APPENDIX: OCCUPATION DESCRIPTIONS

LA COE prepared this report to provide regional labor market supply and demand data related to these target occupations:

- **Construction Managers (11-9021)** Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing. <sup>7</sup>
- **First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)** Directly supervise and coordinate activities of construction or extraction workers. <sup>8</sup>

<sup>7</sup> [Construction Managers \(bls.gov\)](https://www.bls.gov)

<sup>8</sup> [First-Line Supervisors of Construction Trades and Extraction Workers \(bls.gov\)](https://www.bls.gov)

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**DATA SOURCES**

- O\*NET Online
- Lightcast (formerly Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- Self-Sufficiency Standard at the Center for Women's Welfare, University of Washington
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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