

Program Endorsement Brief: 0952/Construction Crafts Technology Construction Pre-Apprenticeship

Los Angeles/Orange County Center of Excellence, October 2018

Summary:

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide regional labor market supply and demand data related to construction. This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with relevant occupations.

The following summarizes key findings from this data brief:

- The number of jobs related to construction is projected to increase by 5% over the next five years. There are projected to be more than 10,000 annual job openings due to new job growth and replacement need (e.g. retirements).
- Over the past 12 months, there were over 2,400 online job postings related to construction in Los Angeles and Orange Counties.
- Eight colleges in the region have construction-related programs.
- Between 2014 and 2017, community colleges in the region conferred an average of 105 awards (associate degrees and certificates) in related training programs.

Occupational Demand—In Los Angeles/Orange County, the number of jobs for construction-related occupations (listed in Appendix A) is projected to increase by 5%. There will be over 10,150 job openings every year through 2022 (Exhibit 1).

Exhibit 1: Occupational demand in Los Angeles and Orange Counties¹

Geography	2017 Jobs	2022 Jobs	2017-2022 Change	2017-2022 % Change	Annual Openings
Los Angeles	62,311	64,659	2,348	4%	6,649
Orange	29,288	31,929	2,641	9%	3,505
Total	91,599	96,588	4,989	5%	10,154

¹ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Wages—Entry-level wages for construction positions in the region are between \$14.79 and \$16.47. Entry-level wages are higher than the MIT Living hourly wage for one adult in Los Angeles County (\$13.54 in Los Angeles County, \$15.31 in Orange County). Experienced workers earn between \$22 and \$38.39, which is higher than the living wage.

Job Postings—There were 2,471 online job postings related to the occupations of interest in the past 12 months. The majority of job postings are for carpenters, construction laborers, and repair workers. Top specialized skills are: carpentry, repair, drywall, construction labor, and framing. The top employers, by number of job postings, in the region are: HomeAdvisor, PeopleReady, the California State University system, and Hensel Phelps.

NOTE: Not all construction employers post job openings online, so it is likely that there are more openings than stated in this report.

Educational Attainment—The BLS lists a high school diploma or equivalent as the typical entry-level education for carpenters and no formal education for construction laborers and carpenter helpers. The national-level educational attainment data indicates between 16% and 26% of workers in the field have completed some college or an associate degree. In Los Angeles/Orange County, all job postings listing a minimum education level requested high school or vocational training.

Community College Supply—Appendix A shows the annual and three-year average number of awards conferred by community college programs that have historically trained for similar occupations. The college/program with the most completions in the region are: LA Trade/Carpentry. Between January and September 2018, there was one other request for data related to a similar program.

Appendix A: Regional community college awards (certificates and degrees), 2014-2017

TOP Code	Program	College	2014-15 Awards	2015-16 Awards	2016-2017 Awards	3-Year Award Average
0952.00	Construction Crafts Technology	El Camino	9	17	8	11
		Fullerton	11	5	5	7
		Orange Coast	24	35	61	40
		Pasadena	3	N/A	N/A	1
		Santa Ana	N/A	12	17	10
		Subtotal/Average	47	69	91	69
0952.10	Carpentry	Fullerton	2	N/A	1	2
		LA Trade	32	42	29	34
		Long Beach	N/A	1	N/A	1
		Santiago Canyon	N/A	N/A	1	1
			Subtotal/Average	34	43	31
		Total	81	112	122	105

Appendix B: Occupational demand and wage data by county

Exhibit 3. Los Angeles County

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Carpenters (47-2031)	29,643	30,236	593	2%	2,897	\$12.21	\$15.19	\$35.30
Construction Laborers (47-2061)	32,052	33,753	1,701	5%	3,652	\$11.25	\$14.33	\$30.64
Helpers--Carpenters (47-3012)	616	671	55	9%	101	\$11.52	\$17.08	\$23.95
Total	62,311	64,659	2,348	4%	6,650	-	-	-

Exhibit 4. Orange County

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Carpenters (47-2031)	13,178	13,910	732	6%	1,386	\$13.51	\$21.87	\$42.11
Construction Laborers (47-2061)	15,557	17,412	1,855	12%	2,028	\$11.58	\$15.86	\$31.69
Helpers--Carpenters (47-3012)	554	608	54	10%	91	\$10.50	\$15.11	\$19.33
Total	29,288	31,929	2,641	9%	3,505	-	-	-

Exhibit 5. Los Angeles and Orange Counties

Occupation (SOC)	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
Carpenters (47-2031)	42,821	44,145	1,324	3%	4,283	\$12.59	\$16.47	\$38.39
Construction Laborers (47-2061)	47,609	51,165	3,556	7%	5,680	\$11.42	\$14.79	\$31.60
Helpers--Carpenters (47-3012)	1,169	1,279	110	9%	192	\$10.80	\$16.00	\$22.00
Total	91,599	96,589	4,990	5%	10,155	-	-	-

Appendix C: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (EMSI)
- Employment Development Department, Labor Market Information Division, OES
- Employment Development Department, Unemployment Insurance Dataset
- Living Insight Center for Community Economic Development
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- MIT Living Wage

For more information, please contact:

Lori Sanchez, Director
Center of Excellence, Los Angeles/Orange County Region
Lsanchez144@mtsac.edu

October 2018

