

**Program Endorsement Brief: 0952/Construction Crafts Technology
Residential/Commercial Framing Helper**

Los Angeles/Orange County Center of Excellence, March 2021

Summary Analysis

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

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide Los Angeles/Orange County regional labor market supply and demand data related to one middle-skill occupation: *carpenters* (47-2031), and one below middle-skill occupation: *helpers—carpenters* (47-3012). Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree.¹ Although the occupation *helpers—carpenters* does not require a formal educational credential, it is included in this report because students who complete the residential/commercial framing helper program will have learned the skills necessary to work in this occupation, with the ultimate goal of working in the target occupation-*carpenters*. 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 the relevant occupations.

Based on the available data, there appears to be a supply gap for these construction framing occupations in the region. While the occupations in this report typically require a high school diploma or less education, entry-level wages exceed the living wage in Los Angeles County. **Therefore, due to some of the criteria being met, the COE endorses this proposed program.** Detailed reasons include:

Demand:

- **Supply Gap Criteria** – Over the next five years, there is projected to be **5,073 jobs available annually** in the region due to new job growth and replacements, **which is more than the 155 awards conferred annually** by educational institutions in the region.

¹ 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 Criteria** – Within Los Angeles County, all of the annual job openings for these construction framing occupations have **entry-level wages above the county’s living wage** (\$15.04/hour).²
- **Educational Criteria** – Within the LA/OC region, **97% of the annual job openings** for occupations related to these construction framing occupations **typically require a high school diploma**.
 - Furthermore, the national-level educational attainment data indicates **between 24.4% and 24.6% of workers in the field have completed some college or an associate degree**.

Supply:

- There are **8 community colleges** in the LA/OC region that issue awards related to construction crafts technology and/or carpentry, conferring an average of **155 awards annually** between 2016 and 2019.
- Currently, there are **no other non-community college educational institutions** in the region that provide training programs for these construction framing occupations.

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for these construction framing occupations. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to increase by 4% through 2024. There will be more than 5,000 job openings per year through 2024 due to job growth and replacements.

This report includes employment projection data by Emsi, which uses EDD information. Emsi’s projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy, during the projection period, will be at approximately full employment. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, it may impact the projections. At this time, it is not possible to quantify the impact of COVID-19 on projections of industry and occupational employment. Therefore, the projections included in this report do not take the impacts of COVID-19 into account.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

Geography	2019 Jobs	2024 Jobs	2019-2024 Change	2019-2024 % Change	Annual Openings
Los Angeles	31,119	32,444	1,325	4%	3,537
Orange	13,852	14,269	417	3%	1,537
Total	44,971	46,713	1,742	4%	5,073

² Living wage data was pulled from California Family Needs Calculator on 3/1/2021. For more information, visit the California Family Needs Calculator website: <https://insightcced.org/2018-family-needs-calculator/>.

³ 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

The labor market endorsement in this report considers the entry-level hourly wages for these construction framing occupations in Los Angeles County as they relate to the county's living wage. Orange County wages are included below in order to provide a complete analysis of the LA/OC region. Detailed wage information, by county, is included in Appendix A.

Los Angeles County— All of the annual openings for these construction framing occupations have entry-level wages above the living wage for one adult (\$15.04 in Los Angeles County). Typical entry-level hourly wages are in a range between \$15.06 and \$15.78. Experienced workers can expect to earn wages between \$18.77 and \$35.26, which are higher than the living wage estimate. Los Angeles County's average wages are below the average statewide wage of \$27.39 for these occupations.

Orange County— The majority (97%) of annual openings for these construction framing occupations have entry-level wages above the living wage for one adult (\$17.36 in Orange County). Typical entry-level hourly wages are in a range between \$16.70 and \$18.97. Experienced workers can expect to earn wages between \$20.77 and \$40.34, which are higher than the living wage estimate. Orange County's average wages are above the average statewide wage of \$27.39 for these occupations.

Job Postings

There were 913 online job postings related to these construction framing occupations listed in the past 12 months. The highest number of job postings were for carpenters, finish carpenters, framers, journeyman carpenters, drywall framers/finishers, and lead carpenters. The top skills were carpentry, framing, finish carpentry, repair, and drywall. The top employers, by number of job postings, in the region were Reborn Cabinets, Crate & Barrel, Eleven Western Builders, and MB Incorporated.

It is important to note that the job postings data included in this section reflects online job postings listed in the past 12 months and does not yet demonstrate the impact of COVID-19. While employers have generally posted fewer online job postings since the beginning of the pandemic, the long-term effects are currently unknown.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists a high school diploma as the typical entry-level education for *carpenters*, and no formal educational credential for *helpers—carpenters*. In the LA/OC region, the majority of annual job openings (97%) typically require a high school diploma. Furthermore, the national-level educational attainment data indicates between 24.4% and 24.6% of workers in the field have completed some college or an associate degree. Of the 14% of construction framing job postings listing a minimum education requirement in Los Angeles/Orange County, 100% (132) requested a high school diploma.

Educational Supply

Community College Supply—Exhibit 2 shows the three-year average number of awards conferred by community colleges in the related TOP codes Construction Crafts Technology (0952.00) and Carpentry (0952.10). The colleges with the most completions in the region are

Orange Coast, Santa Ana, and LA Trade-Tech. Over the past 12 months, there was one other related program recommendation request from a regional community college.

Currently, there are no other non-community college educational institutions in the region that provide training programs for construction framing occupations.

Exhibit 2: Regional community college awards (certificates and degrees), 2016-2019

TOP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
0952.10	Carpentry	LA Trade	29	38	21	29
		LA Subtotal	29	38	21	29
		Fullerton	1	-	3	1
		Santiago Canyon	1	-	1	1
		OC Subtotal	2	0	4	2
Supply Subtotal/Average			31	38	25	31
0952.00	Construction Crafts Technology	Compton	-	2	1	1
		El Camino	9	7	11	9
		Pasadena	-	1	1	1
		LA Subtotal	9	10	13	11
		Fullerton	5	11	14	10
		Orange Coast	61	56	91	69
		Santa Ana	17	12	72	34
		OC Subtotal	83	79	177	113
Supply Subtotal/Average			92	89	190	124
Supply Total/Average			123	127	215	155

Exhibit 4. Los Angeles County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)
Carpenters (47-2031)	30,614	31,895	1,281	4%	3,457	\$15.78	\$23.67	\$35.26
Helpers—Carpenters (47-3012)	505	549	44	9%	80	\$15.06	\$16.86	\$18.77
Total	31,119	32,444	1,325	4%	3,537			

Exhibit 5. Orange County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Carpenters (47-2031)	13,546	13,941	395	3%	1,489	\$18.97	\$27.70	\$40.34
Helpers—Carpenters (47-3012)	306	328	22	7%	47	\$16.70	\$18.65	\$20.77
Total	13,852	14,269	417	3%	1,537			

Exhibit 6. Los Angeles and Orange Counties

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Typical Entry-Level Education	Typical On-The-Job Training
Carpenters (47-2031)	44,160	45,836	1,675	4%	4,947	High school diploma or equivalent	Apprenticeship
Helpers—Carpenters (47-3012)	811	877	67	8%	127	No formal educational credential	Less than 1 month
Total	44,971	46,713	1,742	4%	5,073		

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (Emsi)
- Bureau of Labor Statistics (BLS)
- Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor’s Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor’s Office Curriculum Inventory (COCI 2.0)

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