



Labor Market Analysis: 0948.00 – Automotive Technology 47.0614 – Alternative Fuel Vehicle Technology/Technician Hybrid and Electric Vehicle Technology

Los Angeles Center of Excellence, April 2026

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"/> (See below)		No <input type="checkbox"/>
Living Wage: (Entry-Level, 25 th)	Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>
Education:	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Emerging Occupation(s)			
	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 occupations¹ 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 slight supply gap for the two identified middle-skill occupations in the region. While the number of awards conferred is greater than the number of job openings, the talent supply is within the COE’s acceptable margin (the number of the number of awards issued is 25% over or under the number of annual openings) and is therefore considered “supply met” rather than a “supply gap.” For this reason, real-time labor market data is included in this report as well – to provide a more nuanced view of the regional job market for middle-skill automotive occupations. While entry-level wages are lower than the self-sufficiency standard wage in both Los Angeles and Orange counties, more than one-third of current workers in the field have completed some college or an associate degree as their highest level of educational attainment.

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

¹ 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.

Key Findings

Supply Gap

- 2,150 annual job openings are projected in the region through 2029. This number is less than the three-year average of 2,542 awards conferred by educational institutions in the region.
 - Although there are more awards conferred than job openings, the data suggests that the **demand has been met for these occupations within the LA/OC region** since the three-year average number of awards (supply) is within the COE's 25% margin of annual job openings (demand).
 - Over the past 12 months, there were **5,436 online job postings related to middle-skill automotive occupations**. The highest number of job postings were for automotive technicians, automotive mechanics, and automotive service advisors.

Living Wage

- Both occupations have entry-level wages **below** Los Angeles County's self-sufficiency standard hourly wage (\$24.03/hour).²

Educational Attainment

- 51% of the annual job openings typically require a postsecondary non-degree award for middle-skill automotive occupations in the LA/OC region.
- 35%-49% of workers in the field have completed some college or an associate degree, according to national educational attainment data.

Community college supply

- 15 community colleges issued awards related to automotive technology in the greater LA/OC region.
- 1,805 awards (degrees and certificates) were conferred on average each year between 2023 and 2025.

Other postsecondary supply

- 5 educational institutions in the LA/OC region have conferred awards in programs related to automotive technology over the past three years.
- 737 awards were 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. [For full occupation descriptions, please see Appendix.](#)

- **Automotive Service Technicians and Mechanics (49-3023)**³
- **Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)**⁴

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

³ [Automotive Service Technicians and Mechanics \(bls.gov\)](#)

⁴ [Electronic Equipment Installers and Repairers, Motor Vehicles \(bls.gov\)](#)

OCCUPATIONAL DEMAND

Exhibit 1 shows the five-year occupational demand projections for middle-skill automotive occupations. In the greater Los Angeles/Orange County region, the number of jobs related to these occupations is projected to decrease by 1% through 2029. However, there will be 2,150 job openings per year through 2029 due to retirements and workers leaving the field. The majority of jobs in 2024 for these middle-skill automotive occupations (73%) were located in Los Angeles County.

Exhibit 1: Current employment and occupational demand, Los Angeles and Orange counties⁵

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	18,718	18,529	(189)	(1%)	1,563
Orange	6,807	6,846	40	1%	587
Total	25,524	25,375	(149)	(1%)	2,150

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 County⁶

Occupation	2024 Jobs	2029 Jobs	5-Yr % Change	Annual Openings	% Aged 55 and older	% Full Time Workers
Electronic Equipment Installers and Repairers, Motor Vehicles	91	87	(4%)	7	14%	Data unavailable
Automotive Service Technicians and Mechanics	18,627	18,442	(1%)	1,556	24%	93%
Total	18,718	18,529	(1%)	1,563	-	-

WAGES

The labor market endorsement in this report considers the entry-level hourly wages for these middle-skill automotive occupations in Los Angeles County as they relate to the county's self-

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

⁶ Ibid.

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

Both 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 \$16.66 and \$18.29 (Exhibit 3). Experienced workers can expect to earn wages between \$28.93 and \$34.55, which are higher than the self-sufficiency standard.

Exhibit 3: Earnings for occupations in Los Angeles County

Occupation	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)	Median Annual Earnings*
Electronic Equipment Installers and Repairers, Motor Vehicles	\$16.66	\$23.62	\$28.93	\$49,100
Automotive Service Technicians and Mechanics	\$18.29	\$26.81	\$34.55	\$55,800

*Rounded to the nearest \$100

Orange County

Both occupations have entry-level wages below the self-sufficiency standard wage for one adult (\$27.13 in Orange County). Typical entry-level hourly wages are in a range between \$17.48 and \$20.64 (Exhibit 4). Experienced workers can expect to earn wages between \$30.35 and \$37.29, which are higher than the self-sufficiency standard.

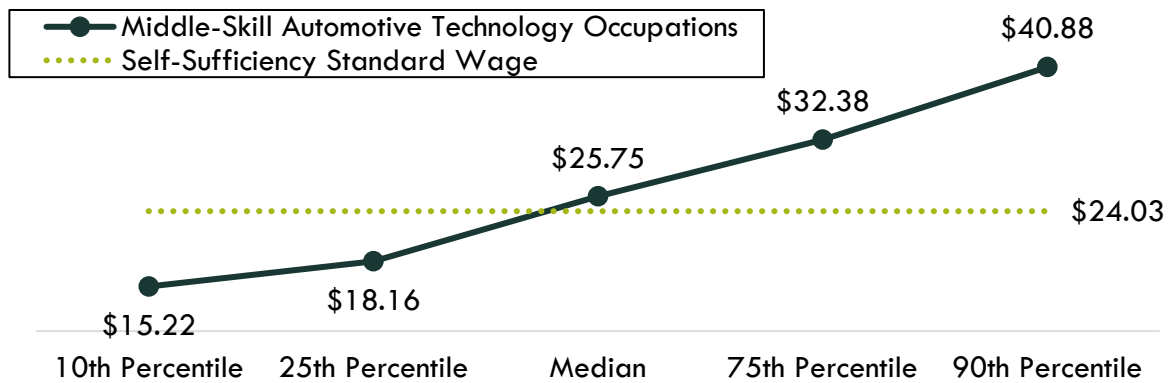
Exhibit 4: Earnings for occupations in Orange County

Occupation	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)	Median Annual Earnings*
Electronic Equipment Installers and Repairers, Motor Vehicles	\$17.48	\$24.78	\$30.35	\$51,500
Automotive Service Technicians and Mechanics	\$20.64	\$29.78	\$37.29	\$62,000

*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 \$18.16; this is below 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.

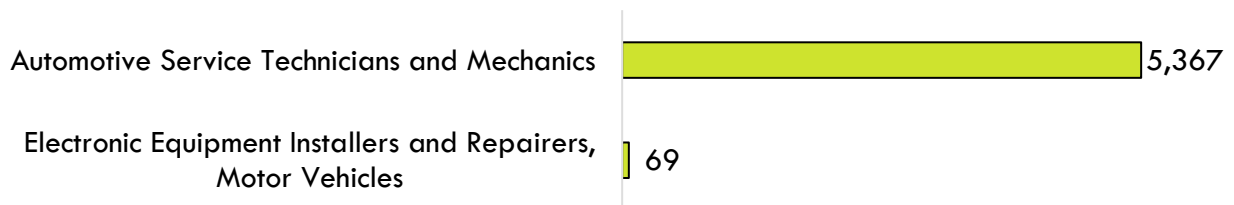
Exhibit 5: Average hourly earnings for target occupations, Los Angeles and Orange counties



JOB POSTINGS

There were 5,436 online job postings related to automotive 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 (99%) were for *automotive service technicians and mechanics*, followed by *electronic equipment installers and repairers, motor vehicles* (1%).

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"> Automotive technicians Automotive mechanics Automotive service advisors Automotive technicians/mechanics Lube technicians Service technicians Vehicle specialists 	<ul style="list-style-type: none"> Automotive services Changing oil Good driving record Suspension (vehicle) Brakes Lifting ability Vehicle inspection Vehicle maintenance Mechanics 	<ul style="list-style-type: none"> Pep Boys Valvoline Walmart Bridgestone Corporation Toyota Motor CarMax AutoNation American Tire Depot Chevrolet

In the greater Los Angeles/Orange County region, 32% of the target 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 for target occupations, Los Angeles and Orange counties

Education Level	Job Postings	% of Job Postings
Bachelor's degree	63	4%
Associate degree	47	3%
High school diploma or vocational training	1,654	93%

EDUCATIONAL ATTAINMENT

In the greater Los Angeles/Orange County region, the majority of annual job openings (99%) typically require a postsecondary non-degree award (Exhibit 9). Furthermore, the national-level data indicates between 35% and 49% 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
Automotive Service Technicians and Mechanics	Postsecondary non-degree award
Electronic Equipment Installers and Repairers, Motor Vehicles	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 programs that have historically trained for the occupations of interest. The colleges with the most completions in the region are Cypress, LA Trade-Tech and Pasadena.

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
0948.00	Automotive Technology	Cerritos	75	184	196	152
		Citrus	100	64	84	83
		Compton	45	15	21	27
		East LA	27	23	108	53
		El Camino	43	57	65	55
		LA Pierce	82	77	181	113
		LA Trade	142	199	322	221
		Long Beach	94	107	138	113

TOP Code	Program	College	2022-23 Awards	2023-24 Awards	2024-25 Awards	3-Year Average
		Pasadena	84	214	171	156
		Rio Hondo	80	101	108	96
		LA Subtotal	772	1,041	1,394	1,069
		Cypress	200	258	258	239
		Fullerton	42	21	71	45
		Golden West	111	200	98	136
		Saddleback	35	180	160	125
		Santa Ana	76	159	172	136
		OC Subtotal	464	818	759	680
		Supply Subtotal/Average	1,236	1,859	2,153	1,749
0948.40	Alternative Fuels and Advanced Transportation Technology	LA Pierce	-	-	18	6
		LA Trade	18	11	15	15
		Long Beach	7	2	5	5
		Rio Hondo	20	33	26	26
		LA Subtotal	45	46	64	52
		Saddleback	4	4	4	4
		OC Subtotal	4	4	4	4
		Supply Subtotal/Average	49	50	68	56
		Supply Total/Average	1,285	1,909	2,221	1,805

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 (83%).

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

Award Type	# of Awards	% of Awards
Bachelor's degree	8	>1%
A.A./A.S. degrees	216	12%
Certificates	1,497	83%
Noncredit awards	84	5%
Total	1,805	100%

Other Postsecondary Supply

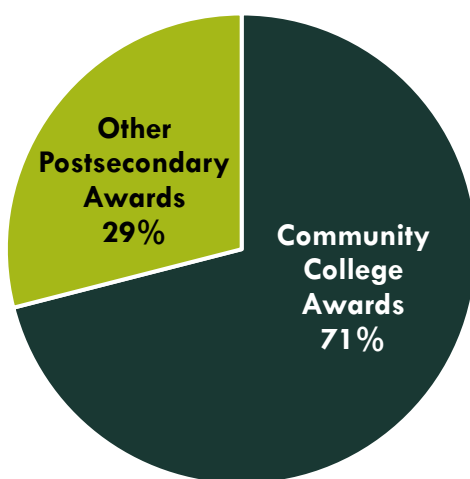
For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that provide training programs for middle-skill automotive occupations. Exhibit 12 shows the number of awards conferred by these institutions in relevant programs. Due to different 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 737 sub-baccalaureate awards. Sub-baccalaureate awards include associate degrees, postsecondary awards, and other academic awards that typically take fewer than four years to complete.

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
47.0604	Automobile/ Automotive Mechanics Technology/ Technician	Baldwin Park Adult & Community Education	4	6	10	7
		UEI College-Garden Grove	64	101	119	95
		UEI College-Gardena	91	82	94	89
		UEI College-West Covina	102	132	130	121
		Universal Technical Institute-Southern CA	391	463	423	426
Supply Total/Average			652	784	776	737

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:

- **Automotive Service Technicians and Mechanics (49-3023)** Diagnose, adjust, repair, or overhaul automotive vehicles.⁷
- **Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)** Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.⁸

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POWERED BY



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)

Important Disclaimer: All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. Efforts have been made to qualify and validate the accuracy of the data and the reported findings; however, neither the Centers of Excellence, COE host District, nor California Community Colleges Chancellor's Office are responsible for applications or decisions made by recipient community colleges or their representatives based upon components or recommendations contained in this study.

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⁷ [Automotive Service Technicians and Mechanics \(bls.gov\)](https://www.bls.gov)

⁸ [Electronic Equipment Installers and Repairers, Motor Vehicles \(bls.gov\)](https://www.bls.gov)