

## Program Endorsement Brief: 0947.00/Diesel Technology Diesel Engine Service Technician

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 diesel technology. 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 for bus and truck mechanics and diesel engine specialists are projected to increase by 7% over the next five years. More than 660 job openings will be available annually due to new job growth and replacement need.
- Over the past 12 months, there were 822 online job postings related to diesel technology in Los Angeles and Orange Counties.
- In the region, four colleges have programs closely related to diesel technology.
- Between 2014 and 2017, community colleges in the region conferred an average of 94 awards annually (associate degrees and certificates) in related training programs.

**Occupational Demand**—In Los Angeles/Orange County the number of jobs for bus and truck mechanics and diesel engine specialists is projected to increase by 7%. There will be more than 660 job openings per year through 2022 (Exhibit 1).

**Exhibit 1: Occupational demand in Los Angeles and Orange Counties<sup>1</sup>**

Geography	2017 Jobs	2022 Jobs	2017-2022 Change	2017-2022 % Change	Annual Openings
Los Angeles	5,078	5,418	340	7%	528
Orange	1,244	1,358	114	9%	136
<b>Total</b>	<b>6,322</b>	<b>6,776</b>	<b>454</b>	<b>7%</b>	<b>664</b>

**Wages**—The entry-level hourly wage for bus and truck mechanics and diesel engine specialists in the region is \$14.16, respectively. 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 \$37.86, which is higher than the living wage. Regional wages are above the average statewide wage for this occupation.

<sup>1</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.

**Job Postings**—There were 822 online job postings related to diesel technology listed in the past 12 months. The majority of job postings are for: diesel mechanic, diesel technician, and fleet mechanic. Top specialized skills are: repair and predictive and preventative maintenance. The top three employers, by number of job postings, in the region are: Amerit Fleet Solutions, Penske, and Waste Management.

**Educational Attainment**—The BLS lists a high school diploma or its equivalent as the typical entry-level education for this occupation. The national-level educational attainment data indicates 35% of workers in the field have completed some college or an associate degree. Of job postings listing a minimum education requirement in Los Angeles/Orange County, 98% of job postings request high school or vocational training.

**Community College Supply**—Appendix A shows the three-year average number of awards conferred by community colleges in the related TOP code: Diesel Technology (0947.00). The college with the most completions in the region is: LA Trade.

**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
0947.00	Diesel Technology	Citrus	8	3	1	4
		LA Trade	49	44	61	51
		Long Beach	2	3	N/A	3
		Santa Ana	33	9	68	37
<b>Total/Average</b>			<b>92</b>	<b>59</b>	<b>130</b>	<b>94</b>

**Appendix B: Occupational demand and wage data by county**

**Exhibit 2. 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
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	5,078	5,418	340	7%	528	\$14.22	\$26.80	\$37.76

### Exhibit 3. 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
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	1,244	1,358	114	9%	136	\$13.96	\$21.96	\$36.53

### Exhibit 4. 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
Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)	6,322	6,776	454	7%	664	\$14.16	\$25.82	\$37.86

### 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

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October 2018

