

## Memorandum

To: Sandy Fowler, Director of Career Technical Education, Yuba College

From: Ebony J. Benzing, Research Manager, Center of Excellence (COE), North-Far North region

Date: April 18, 2019

Re: Program Endorsement Request for Smog Certification Program

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## Background

Yuba College sought a program endorsement report from the COE regarding a Smog certification program. Yuba has taught the required classes for this program for several years but does not have a pathway certificate. Yuba would like to create a certificate program with a clear pathway for automotive students interested in becoming smog technicians.

In May 2018, the COE prepared an extensive report entitled “Greater Sacramento Region Transportation Cluster: Workforce Trends and Emerging Technology.” The findings and recommendations from that report should be used for the Smog Certification program proposal at Yuba. Furthermore, the COE provides updated occupational data for Automotive Service Technicians and Mechanics (49-3023), and Transportation Vehicle, Equipment, and Systems Inspectors, Except Aviation (53-6051.07), which is embedded in Transportation Inspectors (53-6051) for demand data, except where noted.

## Findings

- In 2018, there were about 6,500 Automotive Service Technicians/Mechanics and Transportation Inspectors employed in the Greater Sacramento region. From 2008 to 2018, these occupations grew at an above average rate of 9.2 percent, a trend which is projected to remain relatively stable at 8.3 percent from 2018 to 2023. There are 709 projected annual openings; 578 annual openings are due to replacement (retirement and workers leaving the occupations), while the remaining 131 annual openings are due to new job creation.
- Growth of the selected occupations in the Greater Sacramento region is expected to outpace combined growth in the North/Far North region and growth across the entire state.
- Burning Glass data provides a more accurate demand picture for the Transportation Vehicle, Equipment, and Systems Inspectors, Except Aviation occupation than EMSI. According to Burning Glass, there was an average of jobs postings per year for SOC 53-6051.07 from 2013 to 2018<sup>1</sup>. The year-to-date job postings for 2019 is 12.
- Reported median hourly wages for the selected occupations tend to be below the Sacramento County living wage of \$26.48<sup>2</sup> for one adult and one child. However, median hourly wages are above the Sacramento County living wage of \$12.48<sup>3</sup> for one adult.

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<sup>1</sup> Burning Glass Technologies. “Labor Insight Real-Time Labor Market Information Tool.” <http://www.burning-glass.com>

<sup>2</sup> MIT Living Wage Calculation for Sacramento County, <http://livingwage.mit.edu/counties/06067>

<sup>3</sup> Ibid.

- Regional community colleges award, on average, 217 certificates and 36 Associate degrees per year, totaling an average of 253 awards per year. However, when accounting for private awards, this total jumps to 864 awards per year, due to UTI's average supply of 611 awards per year.

### **Recommendations**

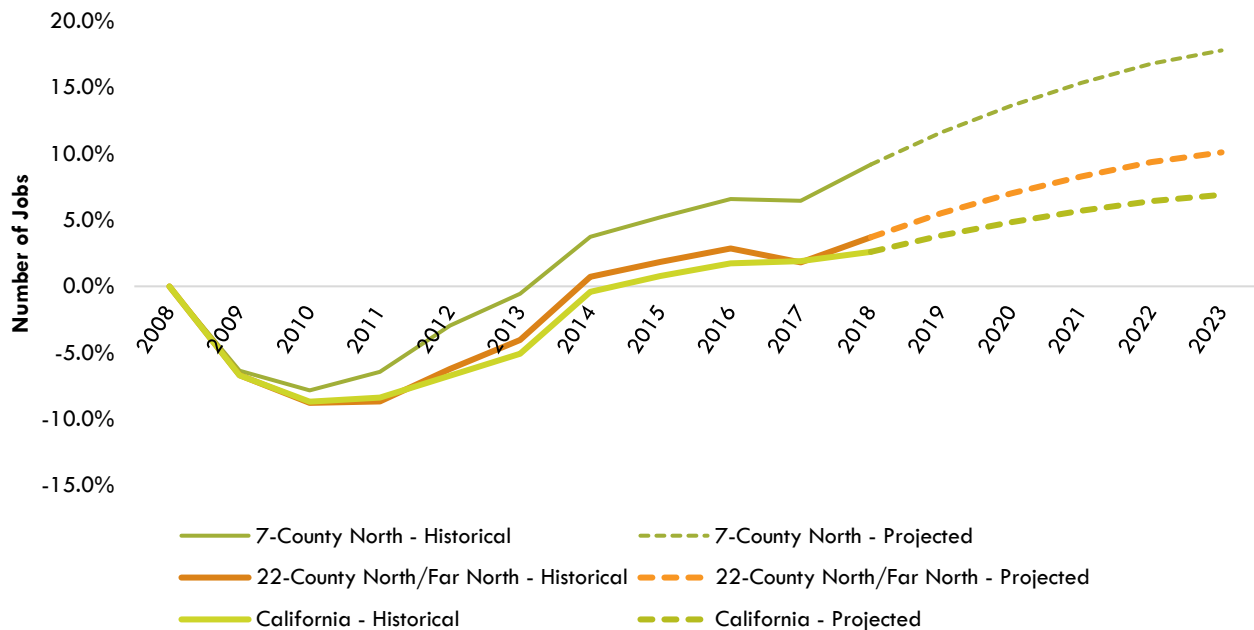
- From a strict demand-supply gap analysis, there is almost parity between demand and supply, tending toward an oversupply of Automotive Service Technicians and Mechanics in the Greater Sacramento region.
- However, Yuba College intends to create a certificate pathway within an already established program. This move would not expand course offerings, and as a result, would not add to program supply values.
- COE recommends that Yuba College move forward in establishing a certificate pathway for its existing Smog certification program.

Please contact Ebony J. Benzing, COE research manager, for further information at [Ebony.Benzing@losrios.edu](mailto:Ebony.Benzing@losrios.edu) or 916-563-3215.

### Exhibit 1. Employment and Projected Occupational Demand<sup>4</sup>

Occupations	SOC	2008 Jobs	2018 Jobs	2023 Jobs	2018-2023 Jobs % Change	Annual Openings	Annual Replacement Jobs
Automotive Service Technicians and Mechanics	49-3023	5,693	6,198	6,714	8.3%	667	545
Transportation Inspectors	53-6051	325	372	374	0.5%	41	33
<b>Greater Sacramento</b>	<b>TOTALS</b>	<b>6,018</b>	<b>6,570</b>	<b>7,088</b>	<b>7.9%</b>	<b>709</b>	<b>578</b>

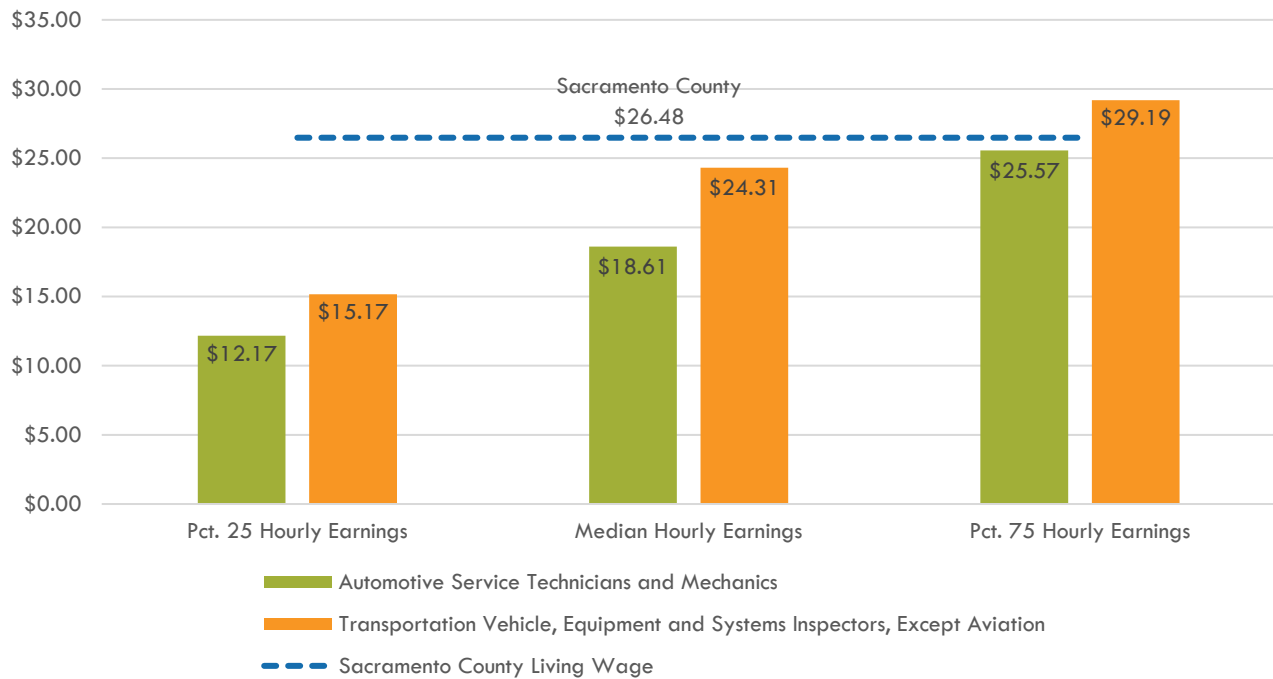
### Exhibit 2. Rate of Change for Selected Occupations<sup>5</sup>



<sup>4</sup> Emsi, 2019.2. QCEW Employees, Non-QCEW Employees and Self-Employed.

<sup>5</sup> Ibid. The 7-county North includes El Dorado, Placer, Nevada, Sacramento, Sutter, Yolo and Yuba. The 22-county North/Far North region includes the aforementioned counties as well as Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Plumas, Shasta, Sierra, Siskiyou, Tehama and Trinity.

**Exhibit 3. Greater Sacramento Hourly Wages for Selected Occupations<sup>6</sup>**



**Exhibit 4. Greater Sacramento Region Program Awards by Community College, 2015-2018<sup>7</sup>**

	Certificates				Associates			
	2015-16	2016-17	2017-18	3-Yr Average	2015-16	2016-17	2017-18	3-Yr Average
<b>American River College</b>	72	58	81	<b>70</b>	18	29	13	<b>20</b>
<b>Cosumnes River College</b>	57	80	179	<b>105</b>	5	1	9	<b>5</b>
<b>Sierra College</b>	17	24	27	<b>23</b>	6	7	8	<b>7</b>
<b>Yuba College</b>	31	20	7	<b>19</b>	2	3	7	<b>4</b>
<b>Totals</b>	<b>177</b>	<b>182</b>	<b>294</b>	<b>217</b>	<b>31</b>	<b>40</b>	<b>37</b>	<b>36</b>

**Exhibit 5. Greater Sacramento Regional Program Awards, Private Institutions, 2014-2017<sup>8</sup>**

	CIP - Program	2014-15	2015-16	2016-17	3-Yr Average
<b>Universal Technical Institute (UTI) of Northern California</b>	47.0604 – Automotive/Automotive Mechanics Technology/Technician	685	600	548	<b>611</b>

<sup>6</sup> Ibid.

<sup>7</sup> COE Supply Tables, California Community Colleges Chancellor's Office DataMart, Integrated Postsecondary Education Data System (IPEDS).

<sup>8</sup> Ibid.