



Labor Market Analysis for Program Recommendation

Automotive Detailing and Surface Enhancement Occupations

Los Medanos College

Prepared by the San Francisco Bay Center of Excellence for Labor Market Research

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Recommendation

Based on all available data, there appears to be an “undersupply” of Automotive Detailing and Surface Enhancement workers compared to the demand for this cluster of occupations in the Bay region and in the East Bay sub-region (Alameda, Contra Costa counties). There is a projected annual gap of about 1,486 students in the Bay region and 533 students in the East Bay Sub-Region.

Introduction

This report provides student outcomes data on employment and earnings for TOP 0948.00 - Automotive Technology programs in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Los Medanos College and in the region.

This report profiles Automotive Detailing and Surface Enhancement Occupations in the 12 county Bay region and in the East Bay sub-region for a proposed new program at Los Medanos College.

Los Medanos College (LMC) requested occupational demand data for the job title of “Auto Detailer.” The occupation “Cleaners of Vehicles and Equipment” (SOC 53-7061) matches closely with this job title and data for the occupation is included in Tables 1 and 2 of the report. LMC also requested occupational demand data for the job title of “Vehicle Vinyl Wrap Installer,” however no Standard Occupational Classification (SOC) code exists yet for this emerging occupation. To address this job title in the report, job postings data was reviewed to identify how many jobs were posted in the past 12 months for Vehicle Wrap Installers. Results show that only 16 jobs were posted over the past 12 months by employers in the Bay region for this position.

- **Automotive Body and Related Repairers (49-3021):** Repair and refinish automotive vehicle bodies and straighten vehicle frames. Excludes “Painters, Transportation Equipment” (51-9122) and “Automotive Glass Installers and Repairers” (49-3022).
Entry-Level Educational Requirement: High school diploma or equivalent
Training Requirement: Long-term on-the-job training
Percentage of Community College Award Holders or Some Postsecondary Coursework: 25%
- **Cleaners of Vehicles and Equipment (53-7061):** Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses. Excludes “Janitors and Cleaners, Except Maids and Housekeeping Cleaners” (37-2011).
Entry-Level Educational Requirement: No formal educational credential

Training Requirement: Short-term on-the-job training

Percentage of Community College Award Holders or Some Postsecondary Coursework: 23%

Occupational Demand

Table 1. Employment Outlook for Automotive Detailing and Surface Enhancement Occupations in Bay Region

Occupation	2022 Jobs	2027 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Wage	Median Hourly Wage
Automotive Body and Related Repairers	3,148	3,404	256	8%	1,698	340	\$25	\$29
Cleaners of Vehicles and Equipment	11,288	11,749	462	4%	8,051	1,610	\$16	\$17
Total	14,436	15,154	718	5%	9,748	1,950		

Source: Lightcast 2024.1

Bay Region includes: Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

Table 2. Employment Outlook for Automotive Detailing and Surface Enhancement Occupations in East Bay Sub-region

Occupation	2022 Jobs	2027 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Wage	Median Hourly Wage
Automotive Body and Related Repairers	1,165	1,321	156	13%	698	140	\$26	\$29
Cleaners of Vehicles and Equipment	3,493	3,688	195	6%	2,556	511	\$16	\$17
Total	4,658	5,009	351	8%	3,254	651		

Source: Lightcast 2024.1

East Bay Sub-Region includes: Alameda, Contra Costa Counties

Job Postings in Bay Region and East Bay Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months (May 2023 - Apr. 2024)

Occupation	Bay Region	East Bay
Automotive Service Technicians and Mechanics	4,373	945

Source: Lightcast

Table 4a. Top Job Titles for Automotive Detailing and Surface Enhancement Occupations for latest 12 months (May 2023 - Apr. 2024) - Bay Region

Title	Bay	Title	Bay
Automotive Technicians	742	Vehicle Technicians	64
Automotive Technicians/Mechanics	240	Automotive Repair Technicians	62
Automotive Service Advisors	166	Technicians	59
Automotive Mechanics	163	Automotive Service Writers	58
Lube Technicians	149	Automotive Service Advisors/Writers	54
Mechanics	130	Auto Body Shop Technicians	51

Title	Bay	Title	Bay
Automotive Service Technicians	101	Automotive Lube Technicians	44
Tire and Lube Technicians	97	Autonomous Vehicle Operators	41
Smog Technicians	74	Master Automotive Technicians	38

Source: Lightcast

Table 4b. Top Job Titles for Automotive Detailing and Surface Enhancement Occupations for latest 12 months (May 2023 - Apr. 2024) - East Bay Sub-Region

Title	East Bay	Title	East Bay
Automotive Technicians	169	Vehicle Technicians	18
Automotive Service Advisors	36	Flat Rate Technicians	16
Automotive Mechanics	35	Fleet Technicians	15
Automotive Technicians/Mechanics	35	Autonomous Vehicle Operators	14
Lube Technicians	23	Technicians	12
Automotive Service Technicians	22	Automotive Lube Technicians	10
Smog Technicians	22	Car Wash Technicians	10
Mechanics	21	Master Automotive Technicians	10
Tire and Lube Technicians	20	Truck Technicians	10

Source: Lightcast

Industry Concentration

Table 5. Industries hiring Automotive Detailing and Surface Enhancement Workers in Bay Region

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2022)	Jobs in Industry (2027)	% Change (2022-27)	% Occupation Group in Industry (2023)
General Automotive Repair	5,393	5,475	2%	34%
New Car Dealers	4,303	4,637	8%	28%
Automotive Body, Paint, and Interior Repair and Maintenance	729	681	-7%	4%
Specialized Automotive Repair	585	543	-7%	4%
Automotive Parts and Accessories Retailers	444	414	-7%	3%
Car Washes	444	419	-6%	3%
Local Government, Excluding Education and Hospitals	419	439	5%	3%
Used Car Dealers	296	310	5%	2%
All Other Automotive Repair and Maintenance	291	280	-4%	2%

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2022)	Jobs in Industry (2027)	% Change (2022-27)	% Occupation Group in Industry (2023)
Tire Dealers	269	261	-3%	2%

Source: Lightcast 2024.1

Table 6. Top Employers Posting Automotive Detailing and Surface Enhancement Occupations in Bay Region and East Bay Sub-Region (May 2023 - Apr. 2024)

Employer	Bay	Employer	East Bay
Bridgestone Corporation	253	Bridgestone Corporation	73
CarMax	164	AutoNation	46
Crash Champions	148	CarMax	33
AutoNation	103	Goodyear	31
Monro Auto Service and Tire Centers	97	Tesla	25
Toyota Motors	89	Toyota Motors	22

Source: Lightcast

Educational Supply

There are 12 community colleges in the Bay Region issuing 451 awards on average annually (last 3 years ending 2021-23) on TOP 0948.00 - Automotive Technology. In the East Bay Sub-Region, there are five (5) community colleges that issued 118 awards on average annually (last 3 years) on this TOP code.

There is one (1) other CTE educational institution in the Bay Region issuing 13 awards on average annually (last 3 years ending 2020-22) on CIP 47.0604- Automobile/Automotive Mechanics Technology/Technician. There are no other CTE educational institution in the East Bay Sub-Region issuing awards on average annually (last 3 years) on this CIP code.

Table 7a. Community College Awards on TOP 0948.00 - Automotive Technology in Bay Region

College	Subregion	Associate Degree	High unit Certificate	Low unit Certificate	Noncredit award	Total
Alameda	East Bay	8	12	0	0	20
Chabot	East Bay	12	2	29	0	43
Contra Costa	East Bay	3	5	6	0	14
Deanza	Silicon Valley	29	20	84	10	143
Evergreen Valley	Silicon Valley	7	8	18	0	33
Las Positas	East Bay	5	0	10	0	15
Los Medanos	East Bay	10	0	16	0	26
Marin	North Bay	0	6	5	0	11
San Francisco	Mid-Peninsula	5	0	3	0	8
Santa Rosa	North Bay	3	2	96	0	101
Skyline	Mid-Peninsula	9	0	1	0	10
Solano	North Bay	3	0	24	0	27
Total		94	55	248	10	451

Source: Data Mart / Note: The annual average for awards is 2019-20 to 2021-22.

Table 7b. Other CTE Institutions Awards on CIP 47.0604- Automobile/Automotive Mechanics Technology/Technician in Bay Region

College	Subregion	Certificates of < 1 year	Total
CET-San Jose	Silicon Valley	13	13
Total		13	13

Source: Data Mart

Note: The annual average for awards is 2019-20 to 2021-22.

Gap Analysis

Based on the data included in this report, there is a labor market gap in the Bay region with 1,950 annual openings for the Automotive Detailing and Surface Enhancement occupational cluster and 464 annual (3-year average) awards for an annual undersupply of 1,486 students. In the East Bay Sub-Region, there is also a gap with 651 annual openings and 118 annual (3-year average) awards for an annual undersupply of 533 students.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 0948.00 - Automotive Technology

Metric Outcomes	Bay All CTE Programs	Los Medanos All CTE Programs	State 0948.00	Bay 0948.00	East Bay 0948.00	Los Medanos 0948.00
Students with a Job Closely Related to Their Field of Study	74%	72%	71%	69%	68%	67%
Median Annual Earnings for SWP Exiting Students	\$53,090	\$36,864	\$33,007	\$43,465	\$40,672	\$38,442
Median Change in Earnings for SWP Exiting Students	24%	37%	44%	37%	51%	64%
Exiting Students Who Attained the Living Wage	54%	37%	42%	41%	42%	36%

Source: Launchboard Strong Workforce Program Median of 2018 to 2021.

Skills, Certifications and Education

Table 9. Top Skills for Automotive Detailing and Surface Enhancement Occupations in Bay Region (May 2023 - Apr. 2024)

Skill	Posting	Skill	Posting
Automotive Services	1,392	Engine Repair	353
Suspension (Vehicle)	870	Power Tool Operation	327
Brakes	814	Batteries	319
Transmission	663	Electrical Systems	316
Changing Oil	639	Vehicle Inspection	284
HVAC	522	Tire Repairs	249
Hand Tools	488	Machinery	226

Skill	Posting	Skill	Posting
Tires	387	Automotive Technologies	214
Oil And Gas	372	Vehicle Maintenance	210
Mechanics	361	Engine Tuning	184

Source: Lightcast

Table 10. Certifications for Automotive Detailing and Surface Enhancement Occupations in Bay Region (May 2023 - Apr. 2024)

Certification	Posting	Certification	Posting
Valid Driver's License	2,137	Passenger Endorsement	6
Automotive Service Excellence (ASE) Certification	742	DOT Certification	6
CDL Class A License	123	Tanker And Hazmat Combo X Endorsement	5
Commercial Driver's License (CDL)	112	Cardiopulmonary Resuscitation (CPR) Certification	5
CDL Class B License	66	Security Clearance	5
CDL Class C License	21	Mobile Electronics Certified Professional	4
Forklift Certification	13	Transportation Worker Identification Credential (TWIC) Card	4
ASE Advanced Engine Performance Certification	10	Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)	4
Tanker Endorsement	9	10-Hour OSHA General Industry Card	2

Source: Lightcast

Table 11. Education Requirements for Automotive Detailing and Surface Enhancement Occupations in Bay Region

Education Level	Job Postings	% of Total
High school or GED	1,213	64%
Associate degree	199	11%
Bachelor's degree & higher	480	25%

Source: Lightcast

Note: 63% of records have been excluded because they do not include a degree level. As a result, the chart above may not be representative of the full sample.

Methodology

Occupations for this report were identified by use of job descriptions and skills listed in O*Net. Labor demand data is sourced from Lightcast occupation and job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CCCC Data Mart and CTE Launchboard.

Sources

O*Net Online

Lightcast

CTE LaunchBoard www.calpassplus.org

Launchboard

Statewide CTE Outcomes Survey

Employment Development Department Unemployment Insurance Dataset

Living Insight Center for Community Economic Development

Chancellor's Office MIS system

Contacts

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