

Automotive Collision Occupations Labor Market Information Report Evergreen Valley 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 Collision workers compared to the demand for this cluster of occupations in the Bay region and in the Silicon Valley sub-region (Santa Clara County). There is a projected annual gap of about 2,118 students in the Bay region and 482 students in the Silicon Valley Sub-Region.

This report also provides student outcomes data on employment and earnings for programs on TOP 0949.00 - Automotive Collision Repair 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 Evergreen Valley College and in the region.

Introduction

This report profiles Automotive Collision Occupations in the 12 county Bay region and in the Silicon Valley sub-region for a proposed new program at Evergreen Valley College.

- **Automotive Body and Related Repairers (SOC 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%
- **Automotive Service Technicians and Mechanics (SOC 49-3023):** Diagnose, adjust, repair, or overhaul automotive vehicles. Excludes "Automotive Body and Related Repairers" (49-3021), "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031), and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).
Entry-Level Educational Requirement: Postsecondary *nondegree award*
Training Requirement: Short-term *on-the-job training*
Percentage of Community College Award Holders or Some Postsecondary Coursework: 33%

Occupational Demand

Table 1. Employment Outlook for Automotive Collision Occupations in Bay Region

| Occupation | 2018 Jobs | 2023 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Average Annual Open-ings | 25% Hourly Wage | Median Hourly Wage |
|--|---------------|---------------|-------------|---------------|----------------|--------------------------|-----------------|--------------------|
| Automotive Body and Related Repairers | 3,752 | 3,897 | 145 | 4% | 2,011 | 402 | \$18.61 | \$26.38 |
| Automotive Service Technicians and Mechanics | 17,319 | 17,443 | 124 | 1% | 8,736 | 1,747 | \$17.24 | \$23.13 |
| TOTAL | 21,071 | 21,340 | 268 | 1% | 10,747 | 2,149 | \$17.48 | \$23.71 |

Source: EMSI 2019.4

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 Collision Occupations in Silicon Valley Sub-Region

| Occupation | 2018 Jobs | 2023 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Average Annual Open-ings | 25% Hourly Wage | Median Hourly Wage |
|--|--------------|--------------|-------------|---------------|----------------|--------------------------|-----------------|--------------------|
| Automotive Body and Related Repairers | 751 | 757 | 6 | 1% | 376 | 75 | \$16.07 | \$23.43 |
| Automotive Service Technicians and Mechanics | 4,144 | 4,098 | -46 | -1% | 2,036 | 407 | \$16.64 | \$22.86 |
| TOTAL | 4,895 | 4,855 | -40 | -1% | 2,412 | 482 | \$16.55 | \$22.94 |

Source: EMSI 2019.4

Silicon Valley Sub-Region includes Santa Clara County

Job Postings in Bay Region and Silicon Valley Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months (March 2019 - February 2020)

| Occupation | Bay Region | Silicon Valley |
|---------------------------------------|--------------|----------------|
| Automotive Specialty Technicians | 5,538 | 1,466 |
| Automotive Body and Related Repairers | 704 | 173 |
| Automotive Master Mechanics | 454 | 146 |
| TOTAL | 6,696 | 1,785 |

Source: Burning Glass

Table 4a. Top Job Titles for Automotive Collision Occupations for latest 12 months (March 2019 - February 2020)

Bay Region

| Common Title | Bay | Common Title | Bay |
|---|-------|---|-----|
| Auto Technician | 1,030 | Personal Package Driver | 75 |
| Mechanic | 433 | Fueler | 65 |
| Service Technician | 373 | Field Service Technician | 46 |
| Technician | 325 | Automotive Service Technician | 45 |
| Auto Body Technician | 247 | Inspector | 44 |
| Lube Technician | 238 | Technician, Retail Industry | 43 |
| Roadside Assistance Technician | 189 | Auto Body Estimator | 40 |
| Detailer | 187 | Specialist | 39 |
| Auto Mechanic | 176 | Maintenance Technician | 37 |
| Automotive Technician | 162 | Flat Rate Technician | 34 |
| Automotive Service Advisor | 150 | Assessor | 34 |
| Repair Technician | 84 | Automotive Advisor | 33 |
| Shop Technician | 83 | 91B Light-Wheel Vehicle Mechanic | 33 |
| Driving Operator, Information And Technology Industry | 81 | Personal Package Driver, Warehousing Industry | 30 |

Table 4b. Top Job Titles for Automotive Collision Occupations for latest 12 months (March 2019 - February 2020) Silicon Valley Sub-Region

| Common Title | Silicon Valley | Common Title | Silicon Valley |
|---|----------------|-----------------------------|----------------|
| Auto Technician | 266 | Flat Rate Technician | 20 |
| Service Technician | 115 | Technician, Retail Industry | 16 |
| Technician | 102 | Vehicle Operator | 15 |
| Mechanic | 96 | General Service | 15 |
| Auto Body Technician | 73 | Field Service Technician | 15 |
| Lube Technician | 58 | Behavior Technician | 15 |
| Automotive Technician | 56 | Operator | 13 |
| Auto Mechanic | 45 | Auto Body Painter | 13 |
| Roadside Assistance Technician | 39 | Inspector | 11 |
| Automotive Service Advisor | 38 | Fueler | 11 |
| Detailer | 34 | Driving Operator | 11 |
| Driving Operator, Information And Technology Industry | 23 | Driver | 11 |
| Automotive Advisor | 21 | Auto Body Estimator | 11 |
| Repair Technician | 20 | Quality Control Technician | 10 |

Source: Burning Glass

Industry Concentration

Table 5. Industries hiring Automotive Collision Workers in Bay Region

| Industry – 6 Digit NAICS (No. American Industry Classification) Codes | Jobs in Industry (2018) | Jobs in Industry (2022) | % Change (2018-22) | % in Industry (2018) |
|--|-------------------------|-------------------------|--------------------|----------------------|
| General Automotive Repair (811111) | 6,385 | 6,471 | 1% | 30% |
| New Car Dealers (441110) | 5,116 | 5,102 | 0% | 24% |
| Automotive Body, Paint, and Interior Repair and Maintenance (811121) | 3,422 | 3,498 | 2% | 16% |
| Automotive Parts and Accessories Stores (441310) | 627 | 554 | -12% | 3% |
| Other Automotive Mechanical and Electrical Repair and Maintenance (811118) | 517 | 481 | -7% | 2% |
| Local Government, Excluding Education and Hospitals (903999) | 442 | 422 | -5% | 2% |
| Tire Dealers (441320) | 407 | 429 | 5% | 2% |
| Car Washes (811192) | 380 | 388 | 2% | 2% |
| All Other Automotive Repair and Maintenance (811198) | 378 | 410 | 8% | 2% |
| Used Car Dealers (441120) | 347 | 424 | 22% | 2% |
| Automotive Glass Replacement Shops (811122) | 283 | 298 | 5% | 1% |

Source: EMSI 2019.4

Table 6. Top Employers Posting Automotive Collision Occupations in Bay Region and Silicon Valley Sub-Region (March 2019 - February 2020)

| Employer | Bay | Employer | Bay | Employer | Silicon Valley |
|------------------------------------|-----|---------------------------|-----|------------------------------------|----------------|
| United Parcel Service Inc | 230 | Toyota Motors | 54 | Autonation | 55 |
| Allstate Good Hands Rescue Network | 209 | Mopar Cap Student Program | 51 | Bridgestone / Firestone | 43 |
| Bridgestone / Firestone | 139 | Amerit Fleet Solutions | 51 | Allstate Good Hands Rescue Network | 41 |
| Chrysler | 120 | Goodyear | 50 | Chrysler | 30 |
| Transdev Inc | 103 | Best Buy | 50 | Pep Boys | 29 |
| Autonation | 95 | Big O Tires | 48 | Transdev Inc | 28 |

| | | | | | |
|----------------------------|----|-------------------------|----|---------------------------|----|
| Pep Boys | 87 | Penske Automotive Group | 46 | Penske Automotive Group | 27 |
| Carmax | 67 | Chevrolet | 44 | Lexus | 27 |
| Honda | 66 | Army National Guard | 40 | Service King | 26 |
| Caliber Collision Centers | 64 | Penske | 38 | Goodyear | 23 |
| Tesla Motors | 62 | Lexus | 38 | Honda | 22 |
| Jiffy Lube | 62 | FedEx | 37 | Caliber Collision | 20 |
| Sonic Automotive | 58 | Service King | 36 | United Parcel Service Inc | 18 |
| Lithia Motors Incorporated | 58 | Qvale Auto Group | 35 | Tesla | 18 |
| Caliber Collision | 56 | Hertz Corporation | 35 | Subaru | 18 |
| Tesla | 55 | Transdevna | 34 | Jiffy Lube | 18 |
| Allstate | 55 | Gmp Cars,Llc | 33 | Hertz Corporation | 17 |

Source: Burning Glass

Educational Supply

There are five (5) community colleges in the Bay Region issuing 31 awards on average annually (last 3 years) on TOP 0949.00 - Automotive Collision Repair. There are no colleges in the Silicon Valley Sub-Region issuing awards on average annually (last 3 years) on this TOP code.

Table 7. Awards on TOP 0949.00 - Automotive Collision Repair in Bay Region

| College | Sub-Region | Associates | Certificate 18+ Units | Certificate Low Unit | Total |
|--|---------------|------------|-----------------------|----------------------|-----------|
| City College of San Francisco | Mid-Peninsula | | | 8 | 8 |
| College of Alameda | East Bay | 4 | 10 | | 14 |
| College of Marin | North Bay | | 2 | | 2 |
| Contra Costa College | East Bay | 1 | 3 | 2 | 6 |
| Solano College | North Bay | | 1 | | 1 |
| Total Bay Region | | 5 | 16 | 10 | 31 |
| Total Silicon Valley Sub-Region | | 0 | 0 | 0 | 0 |

Source: Data Mart

Note: The annual average for awards is 2015-16 to 2017-18.

Gap Analysis

Based on the data included in this report, there is a labor market gap in the Bay region with 2,149 annual openings for the Automotive Collision occupational cluster and 31 annual (3-year average) awards for an annual undersupply of 2,118 students. In the Silicon Valley Sub-Region, there is also a gap with 482 annual openings and no annual (3-year average) awards for an annual undersupply of 482 students.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 0949.00 - Automotive Collision Repair

| 2015-16 | Bay (All CTE Programs) | Evergreen Valley College (All CTE Programs) | State (0949.00) | Bay (0949.00) | Silicon Valley (0949.00) | Evergreen Valley College (0949.00) |
|---|------------------------|---|-----------------|---------------|--------------------------|------------------------------------|
| % Employed Four Quarters After Exit | 74% | 76% | 68% | 70% | n/a | n/a |
| Median Quarterly Earnings Two Quarters After Exit | \$10,550 | \$8,549 | \$5,980 | \$7,130 | n/a | n/a |
| Median % Change in Earnings | 46% | 75% | 77% | 122% | n/a | n/a |
| % of Students Earning a Living Wage | 63% | 53% | 40% | 48% | n/a | n/a |

Source: Launchboard Pipeline (version available on 3/23/20)

Skills, Certifications and Education

Table 9. Top Skills for Automotive Collision Occupations in Bay Region (March 2019 - February 2020)

| Skill | Postings | Skill | Postings | Skill | Postings |
|--|----------|---------------------------------------|----------|----------------------------------|----------|
| Repair | 3,922 | Automotive Industry Knowledge | 329 | Commercial Driving | 177 |
| Auto Repair | 1,942 | Motor Vehicle Operation | 313 | Soldering | 177 |
| Customer Service | 1,233 | Predictive / Preventative Maintenance | 313 | Transmission Repair | 176 |
| Automotive Services Industry Knowledge | 1,079 | Roadside Assistance | 304 | Machinery | 166 |
| Customer Contact | 510 | Lifting Ability | 278 | Engine Repair | 160 |
| Scheduling | 485 | Cleaning | 275 | Data Entry | 159 |
| Hand Tools | 481 | Highway Maintenance | 244 | Battery Testing and Installation | 158 |
| Vehicle Maintenance | 462 | Brake Work | 238 | Schematic Diagrams | 156 |
| Welding | 456 | Automotive Painting | 232 | Test Equipment | 156 |
| Oil Changes | 450 | Quality Assurance and Control | 220 | Store Management | 151 |
| Power Tools | 399 | Occupational Health and Safety | 216 | Technical Training | 151 |
| Mechanical Repair | 397 | Tire Repairs | 202 | Hammering | 140 |
| Electrical Systems | 375 | Manual Dexterity | 199 | Tire Mounting | 137 |
| Sales | 338 | Retail Industry Knowledge | 199 | Forklift Operation | 128 |
| Vehicle Inspection | 332 | Inspection Records | 178 | Hydraulics | 121 |

Source: Burning Glass

Table 10. Certifications for Automotive Collision Occupations in Bay Region (March 2019 - February 2020)

Note: 12% of records have been excluded because they do not include a certification. As a result, the chart below may not be representative of the full sample.

| Certification | Postings | Certification | Postings |
|---|----------|---|----------|
| Driver's License | 3,717 | CDL Class C | 33 |
| Automotive Service Excellence (ASE) Certification | 921 | EPA 609 | 31 |
| Air Brake Certified | 173 | Occupational Safety and Health Administration Certification | 30 |
| CDL Class A | 122 | Welding Certification | 29 |
| First Aid CPR AED | 59 | CDL Class B | 29 |
| Mobile Electronics Certified Professional (MECP) | 54 | Certified Career Development Facilitator | 27 |
| Mobile Electronics Certified Professional | 54 | Certified Lube Technician | 26 |
| I-Car | 52 | Registered Behavior Technician | 25 |
| Chrysler Certified | 50 | Environmental Protection Agency Certification | 23 |
| MECP Basic Installation | 44 | Auto Repair Certification | 22 |
| MECP Advanced Certification | 41 | Advanced Engine Performance Certified | 19 |
| Good Conduct | 34 | Microsoft Certified Systems Engineer (Legacy) | 15 |

Source: Burning Glass

Table 11. Education Requirements for Automotive Collision Occupations in Bay Region

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

| Education (minimum advertised) | Latest 12 Mos. Postings | Percent 12 Mos. Postings |
|------------------------------------|-------------------------|--------------------------|
| High school or vocational training | 2,375 | 97% |
| Associate Degree | 70 | 3% |
| Bachelor's Degree or Higher | 0 | 0% |

Source: Burning Glass

Methodology

Occupations for this report were identified by use of skills listed in O*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCCO Data Mart.

Sources

O*Net Online
Labor Insight/Jobs (Burning Glass)
Economic Modeling Specialists International (EMSI)
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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