

# HYBRID ELECTRIC VEHICLE MAINTENANCE SPECIALIST, CERTIFICATE OF ACHIEVEMENT

**Banner Code:** 2\_CN\_AUTOEV

**Control Number:** 45345

**Not Financial Aid Eligible**

This program is designed to prepare students for careers as automotive service technicians. The curriculum aligns with the ASE certification areas A6 Automotive Electrical, A5 Brakes, and L3 Light Duty Hybrid/Electric Vehicles. This prepares students for employment in the automotive industry. Upon completion of this program, students will have developed the skills required to maintain Hybrid and Electric vehicle (HEV) systems.

## Program Level Learning Outcomes

Upon completion of this program, students will be able to:

1. Perform hybrid electric vehicle high voltage disconnect procedure as per manufacture procedures.
2. Measure high voltage electrical circuits using industry standard tools and equipment to verify high voltage system performance.
3. Perform multipoint vehicle inspection and routine maintenance procedures as per manufacture specification.
4. Identify differences in parallel, series/parallel, mild, plug-in, and full electric vehicle powertrains.

## Potential careers students may enter upon completion are as follows:

- Automotive Service and Repair
- Fleet Service
- Public Transportation and Maintenance
- Automotive Aftermarket Industry

Review Graduation Requirements (<https://catalog.cccd.edu/golden-west/graduation-requirements/certificates/#achievementtext>) and Program Maps (<https://programmap.goldenwestcollege.edu/academics/>).

Course	Title	Units
<b>Required Courses</b>		
AUTO G101	Introduction to Automotive Technology	3
AUTO G120	Electrical/Electronic Systems: Introductory	5
AUTO G121	Electrical/Electronic Systems: Advanced	5
AUTO G170	Hybrid Vehicles	3
AUTO G140	Automotive Chassis: Brakes	5
<b>Total Units</b>		<b>21</b>