

ENGINE PERFORMANCE AND EMISSIONS SPECIALIST, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 2_AS_AUTO

Control Number: 44257

Financial Aid Eligible

The program is designed to prepare students for careers in the automotive industry. The curriculum aligns with the Automotive Service Excellence (ASE) certification areas A1 Engine Repair, A6 Automotive Electrical, and A8 Engine Performance. This prepares students for employment in advanced level diagnostics. Upon completion of this program, students will have developed the skills required to diagnose and repair fuel and emissions related systems.

Program Level Learning Outcomes

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

1. Diagnose drivability and emission systems using industry accepted diagnostic tools and equipment.
2. Assess drivability and emission related input/output values using diagnostic tools and comparing findings to published manufacturer's specifications.
3. Perform an emission system repair procedure utilizing published manufacturer's service procedures.

Potential careers students may enter upon completion are as follows:

- Automotive service and repair
- Fleet service
- Public transportation
- Automotive aftermarket industry
- Marine repair

Review Graduation Requirements (<https://catalog.cccd.edu/golden-west/graduation-requirements/certificates/#achievementtext>).

| Course | Title | Units |
|---|--|--------------|
| Required Courses | | |
| AUTO G110 | Engine Repair | 5 |
| AUTO G120 | Electrical/Electronic Systems: Introductory | 5 |
| AUTO G121 | Electrical/Electronic Systems: Advanced | 5 |
| AUTO G130 | Engine Performance: Basic Theory/ Diagnosis | 4.5 |
| AUTO G131 | Engine Performance: Advanced | 4.5 |
| AUTO G181 | Automotive Express Service | 4 |
| Major Total | | 28 |
| GE Pattern (Local, CSU GE-Breadth, or IGETC) | | 18-39 |
| Total Units | | 60 |