

# SMOG TECHNICIAN SPECIALIST, CERTIFICATE OF ACHIEVEMENT

**Banner Code:** 2\_CN\_SMOG

**Control Number:** 44259

**Not Financial Aid Eligible**

This program is designed to prepare students for careers as automotive smog technicians. The curriculum aligns with the Automotive Service Excellence (ASE) certification areas A6 Electrical Electronics, A8 Engine Performance, and L1 Advanced Engine Performance. This prepares students who are entering the workforce for the first time as well as those in the workforce who want to improve skills to advance their careers. Upon completion of this program, students will have developed the skills required to diagnose and repair automotive emission systems.

## Program Level Learning Outcomes

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

1. Analyze diagnostic trouble codes and freeze frame data to determine root cause of emissions failures.
2. Describe the laws, regulations, and procedures associated with consumer authorization of inspections and the overall administration of the Smog Check Program.
3. Perform Smog check functional tests on various vehicle designs.
4. Analyze emission monitor readiness on vehicles equipped with second generation On-Board Diagnostics systems (OBDII).
5. Describe catalytic converter performance standards of practice expected by Smog Check Inspectors.

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

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

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

Course	Title	Units
<b>Required Courses</b>		
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 G145	Basic Clean Air Car Course	5
<b>Total Units</b>		<b>24</b>

students may want to consider before following these maps. **Students are advised to meet with a GWC Counselor for alternate sequencing.**

### Year 1:

Course	Title	Units
<b>Semester 1</b>		
AUTO G120	Electrical/Electronic Systems: Introductory	5
AUTO G130	Engine Performance: Basic Theory/ Diagnosis	4.5
<i>Units</i>		<i>9.5</i>

Course	Title	Units
<b>Semester 2</b>		
AUTO G121	Electrical/Electronic Systems: Advanced	5
AUTO G131	Engine Performance: Advanced	4.5
AUTO G145	Basic Clean Air Car Course	5
<i>Units</i>		<i>14.5</i>

## Recommended Program Sequence

These sequences are general maps for students to finish all requirements for the Certificate. There may be advisories or time requirements that