

# AUTOMOTIVE EMISSIONS SYSTEMS, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Automotive Emissions Systems provides training on vehicle emission systems, including their basic operation, function, service, and maintenance. The systems include on-board diagnostics (OBD I and OBD II), engine, exhaust, and fuel emission systems. This certificate is designed to prepare students to become employees for entry-level positions at local automotive dealerships, independent repair facilities, national repair chains, fleets, and parts suppliers. The applicable courses are National Automotive Technicians Education Foundation (NATEF) compliant. Oxnard College is a Bureau of Automotive Repair Certified Training Institution for the SMOG courses and houses the State referee. This coursework allows students to apply for the California Bureau of Auto Repair Smog Technician license that allows an individual to inspect and certify emission control systems on vehicles subject to the smog check program at licensed stations in all areas of the state. A student earning this certificate and the California Smog inspectors license will more likely be hired at a higher wage due to their acquired skill and training.

- Organize and care for basic automotive tools and equipment and store safely.
- Practice skills needed for industry and state smog certification tests.

Course ID	Title	Units/ Hours
<b>Required Core Courses:</b>		
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
AT R113	Automotive Engine Performance	6
AT R148	Smog Check Procedures	3
<b>Total Units</b>		<b>21</b>
<b>Year 1</b>		
<b>Fall Semester</b>		<b>Units/Hours</b>
AT R110	Introduction to Automotive Technology	6
AT R115	Automotive Electrical Systems	6
<b>Units/Hours</b>		<b>12</b>
<b>Spring Semester</b>		
AT R113	Automotive Engine Performance	6
<b>Units/Hours</b>		<b>6</b>
<b>Year 2</b>		
<b>Fall Semester</b>		
AT R148	Smog Check Procedures	3
<b>Units/Hours</b>		<b>3</b>
<b>Total Units/Hours</b>		<b>21</b>

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

- Prepare vehicles for drivability systems evaluation and operation.
- Diagnose and repair or replace engine, exhaust, and fuel emission systems.
- Practice environmental safety in accordance with applicable safety and environmental regulations governing the automotive industry.
- Interpret and analyze online service data, written repair material and technical service bulletins to repair and service a vehicle.
- Demonstrate proficiency in the use of specialized automotive service tools, electronic diagnostic equipment and California State Smog test equipment with analysis of reports generated.