

AUTOMOTIVE TECHNOLOGY

Division: Career Technical Education

Career Technical Education

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- Automotive Sales and Service Certificate
 - Automotive T-TEN Air Conditioning Specialist Certificate
 - Automotive T-TEN Brake and Alignment Specialist Certificate
 - Automotive T-TEN Electrical Certificate
 - Automotive T-TEN Engine and Driveline Specialist Certificate
 - Automotive T-TEN Performance and Driveability Specialist Certificate
 - Automotive T-TEN Toyota and Lexus Specialist Certificate
 - Automotive Technology - Electrical Diagnostic Specialist Certificate
 - Automotive Technology - Maintenance Technician Certificate
 - Automotive Technology Associate in Science Degree
 - Automotive Technology Certificate
 - Automotive Technology Certificate – Brake and Alignment Specialist
 - Automotive Technology Certificate – Emission Control Specialist
 - Automotive Technology Certificate – Engine Specialist
 - Automotive Technology Certificate – Performance and Driveability Specialist

- Automotive Technology Certificate – Transmission Specialist
- T-TEN Certified Technician Associate in Science Degree
- T-TEN Certified Technician Certificate
- T-TEN Maintenance Technician Associate in Science Degree
- T-TEN Maintenance Technician Certificate

At Cypress College, there are Department Program Student Learning Outcomes and Degree & Certificate Program Student Learning Outcomes.

Department Program Student Learning Outcomes:

The courses taught by this department contribute to the following ISLO/PSLOs: A-Breadth of Knowledge, Competencies, and Skills; specifically, the following ISLO/PSLO subcategories: A1-Career Technical Education.

Students who complete the Automotive Technology field of study will be able to develop the following skills required by the NATEF to enhance their employment opportunities and advance their career goals.

- Diagnose brake system, ABS systems, power booster systems, and suspension components; perform alignment; steering component diagnosis and repairs
- Utilize scan-tools, scopes DVOM's and other test equipment in trouble-shooting engine and transmission driveability problems
- Diagnose fuel system problems; service emission controls; diagnose fuel injection and Powertrain Control Module problems
- Diagnose electrical system problems; use test meters; overhaul electrical components.
- Diagnose and repair manual transmission systems, drivelines, differentials and 4-wheel drive/all wheel drive systems.
- Diagnose and repair automatic transmission/transaxle systems, torque converters.
- Diagnose and repair heating and air conditioning systems including automated systems.
- Learn the structure and functions of an internal combustion engine; perform engine overhaul processes and diagnosis of mechanical engine components.
- Develop mathematical skills to use in analytical problem solving.
- Function as a shop service manager, shop foreman, or supervisor; learn safety management.
- Operate a Computer Customer Records System; perform service manager functions.
- Develop effective communication skills in dealing with customers in a simulated automotive business structure.

Degree & Certificate Program Student Learning Outcomes:

The program student learning outcomes for each award can be found on the specific degree or certificate page.