

AUTOMOTIVE TECHNOLOGY – ENGINE PERFORMANCE TECHNICIAN – ASSOCIATE IN SCIENCE DEGREE, CERTIFICATE OF ACHIEVEMENT

Top Code:

0948.00

The curriculum prepares the student for entry-level employment as a diagnostician or for various manufacturer training courses. Students will gain valuable hands-on experience in diagnosing and repairing automotive engine driveability problems. Fuel injection, ignition and emission systems testing, and applicable laws will also be covered. Use of precision equipment including lab scopes, engine and emission analyzers and other specialty tools is emphasized. Students are encouraged to take the Automotive Service Excellence (ASE) Exams for Engine Performance (A8) Professional Examinations. ASE Student Certification Examinations are administered in these courses.

This program has lab fees, uniform and DMV requirements. This curriculum is National Technicians Education Foundation (NATEF) approved and renewed in 2016.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Program Outcomes

- Demonstrate the safe and appropriate use of engine diagnostic tools used in the automotive industry.
- Apply fuel, ignition, and emission system theories of operation to practical diagnostic scenarios encountered during engine performance repairs.
- Apply testing procedures related to NATEF standards to diagnose vehicle drivability issues.

Requirements for the Certificate of Achievement

Code	Title	Units
AUTO 200	AUTOMOTIVE FUNDAMENTALS FOR TECHNICIANS	4
AUTO 201	ENGINE OPERATION & TESTING	6
AUTO 206A	BASIC AUTOMOTIVE ELECTRICAL SYSTEMS	4
AUTO 206B	AUTOMOTIVE ELECTRICAL SYSTEMS	4
AUTO 208	ENGINE PERFORMANCE	6
Total Units		24

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/7e85bdcc-be06-405f-9845-b8b63e49f8c6/programs/0524071a-b77c-6b30-361c-d8858a97c486/>) for a suggested sequence of courses.

General Education Requirements for the Associate in Science Degree

- General Information (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/>)
- PCC Local Gen Ed (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#pcclocaltext>)
- CSU Breadth (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#csubreadthtext>)
- IGETC (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#igetctext>)