

AUTOMOTIVE TECHNOLOGY – UNDERHOOD TECHNICIAN – CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement is not eligible as a major for an Associate Degree.

Top Code: 0948.00

The curriculum prepares the student for entry-level employment as a lube technician, entry level mechanic, or fleet repair technician in an automotive engine repair facility. Students will gain valuable hands-on experience with basic diagnostic tools and procedures. Engine diagnosis testing will also cover the oiling, fuel, cooling, intake, and exhaust systems. Use of precision measuring equipment is practiced. Students are encouraged to take the Automotive Service Excellence (ASE) Exam for Engine Repair (A1). ASE Student Examinations are administered within program courses.

This program has lab fees, physical requirements, program uniform, and driver's license requirements. This curriculum is National Technicians Education Foundation (NATEF) approved and renewed in 2016.

An Occupational Skills Certificate is awarded upon successful completion of all required courses with a grade of C or better.

Program Outcomes

1. Demonstrate the proper set up and operation of engine mechanical system diagnostic tools used in the automotive industry.
2. Describe engine mechanical operating systems and control assemblies, their theories of operation, and practical diagnostic scenarios used to track failed components or systems encountered during engine repair.
3. Apply skill sets pertaining to the National Automotive Technician Education Foundation (NATEF) standards and performance tasks for automotive engine repair.

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
Total Units		14

Recommended Electives

Code	Title	Units
MACH 101	BEGINNING METALWORKING SKILLS	3
WELD 044A	INTRODUCTION TO GAS WELDING	1
WELD 200C	INTRODUCTION TO FABRICATION GMAW & GTAW	6

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/7e85bdcc-be06-405f-9845-b8b63e49f8c6/programs/7e85f0e3-ce81-250b-7e1b-b9ea8a0c11d0/>) for a suggested sequence of courses.