

AUTOMOTIVE TECHNOLOGY: ENGINE MACHINING TECHNOLOGY (CERT)

CERTIFICATE OF ACHIEVEMENT

The Engine Machining certificate option prepares students for employment as an entry-level engine machinist. Through courses focusing on the mechanical areas of the vehicles, including basics in engines, equipment usage, engine rebuilding techniques, and machining practices, students learn how to use specialty equipment and measurement tools found in engine machinist facilities. Core topics include engine operation, measurement techniques, increasing engine power and torque, and engine modifications. Design, function, and operation of all these systems is also included in the certificate. Graduates are employed as entry level engine machinists, general engine technicians, apprentice engine machinists, or are self-employed.

Program Student Learning Outcomes

- Students employ appropriate safety practices while conducting engine machining procedures.
- Students identify properly appropriate machining procedures for engine reconditioning.
- Students identify the primary engine performance-enhancing techniques.
- Students use proper engine diagnosis and service techniques.

Program Requirements

Code Number	Course Title	Units
Required Courses		
AUTO 101	Automotive Service Tools and Equipment	4.0
AUTO 110	Automotive Engines	5.0
AUTO 210	Automotive Upper Engine Machinist	4.0
AUTO 211	Automotive Lower Engine Machinist	4.0
AUTO 212	Advanced High Performance Engines	1.0
Total Units		18