

# AMT 250 : Engine Performance

Provide students with an introduction to the Automotive Service Excellence (ASE) Engine Performance Test (A6). This course is designed to provide the student with the ability to retrieve and record diagnostic trouble codes, diagnose drivability concerns and make the necessary repairs. Course content includes diagnostic and repair strategies in Electrical and Electronic Systems, Engine Performance and Emissions systems. This course is also intended for the student as a test preparation course for the Automotive Service Excellence (ASE) A6 and A8 certification exams. The simulator training will be based on the "Composite Vehicle" by the use of simulator boards and computer-based training methods prior to live vehicle work. This is an introductory study of computerized engine controls and diagnosis as it pertains to the function and control of the engine, fuel, ignition, and emission control systems. Emphasis will be placed on system components and their operational characteristics. Basic troubleshooting techniques of the engine, fuel, ignition, and emission control systems will be demonstrated. (Previously AMT 240 and AMT 246.)

**Credits** 6

**Lecture/Lab Credits** 210

**Teaching Equivalent** 8.75

**Recommended Prep**

At least 10th grade reading skill.

**Prerequisites**

AMT 100, AMT 129 (or concurrent), and AMT 141 (or concurrent), all with grade C or better; and ENG 19 with grade C or better, or placement at least ENG 22, or consent. Student must maintain a valid Driver's license throughout the duration of the automotive course of studies.