

AT 230 - ENGINE PERFORMANCE II

Course Description

This course covers computerized engine controls including the latest emission control systems. The student will become proficient with the use of scanners, scopes, and the latest engine analyzers. The art of diagnostics and troubleshooting will be stressed. The student will have hands-on experience in this area including practice using the computer as a source of information. Group 2 course.

Credit Hours

4.5

Contact Hours

7

Lecture Hours

2

Lab Hours

5

Required Prerequisites

AT 130

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Identify the necessary components for computerized engine controls as related to engine performance including scanners, scopes, and engine analyzers.

Application:

- Use problem solving strategies to resolve various computerized engine controls to given specifications.

Integration:

- Demonstrate the art of diagnostics and troubleshooting computerized engine controls through simulations and work on live vehicles.

Human Dimension:

- Discuss with others issues relating to engine performance.

Caring - Civic Learning:

- Demonstrate care by using the recommended shop procedures when servicing a vehicle.

Learning How to Learn:

- Correctly perform repair and diagnostic procedures as defined by National Automotive Technicians Education Foundation standards.