

AT 120 - AUTOMOTIVE ELECTRICAL I

Course Description

This course covers basic electricity, circuits, testing equipment, and solid state electronics. Group 2 course.

Credit Hours

5

Contact Hours

8

Lecture Hours

2

Lab Hours

6

Required Prerequisites

AT 100-may be taken concurrently

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Describe electrical basics using current automotive system nomenclature including electricity, circuits, testing equipment, and solid state electronics.

Application:

- Use the results of diagnostic strategies to service automotive starting and charging systems.

Integration:

- Use problem solving strategies to resolve basic automotive charging and starting systems.

Human Dimension:

- Discuss course concepts relating to brake systems.

Caring - Civic Learning:

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

Learning How to Learn:

- Demonstrate mastery of solid state electronics diagnostic tests and repair through passing the written testing modeling after state testing.