

# AT 220 - AUTOMOTIVE ELECTRICAL II

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## Course Description

This course covers advanced automotive electronics with the emphasis placed on operation, troubleshooting, and repair of lighting, gauges, accessories, and power option circuits. Body hardware is covered including diagnostics of modern systems with body control modules. Group 2 course.

## Credit Hours

5

## Contact Hours

8

## Lecture Hours

2

## Lab Hours

6

## Required Prerequisites

AT 120

## General Education Outcomes supported by this course

Critical Thinking - Direct

## Course Learning Outcomes

### Knowledge:

- Identify the various elements of electrical systems.

### Application:

- Identify issues with various electronics.
- Conduct diagnostics of modern systems with body control modules.

### Integration:

- Use problem solving to resolve advanced automotive electronics issues.

### Human Dimension:

- Demonstrate their ability to properly service a vehicle for customers using recommended shop procedures. .
- Collaborate with peers as they work on vehicles to solve problems.

### Caring - Civic Learning:

- Appreciate the need to act professionally when working with customers.

### Learning How to Learn:

- Perform appropriate diagnostic routines and test procedures for resolving automotive electrical diagnostic and repair procedures as defined by National Automotive Technicians Education Foundation standards.