

# ATEC 202: AUTOMOTIVE ELECTRICAL SYSTEMS II

Continuation of ATEC 201, with review and a more in-depth study of the fundamentals of DC electricity: Electrical fundamentals review, batteries, starters, charging systems, modern ignition systems, body wiring, and an introduction to automotive computer-control systems are included.

## Course Student Learning Outcomes

1. Identify the various electrical systems, components, and component parts relating to automotive starting, charging, and ignition systems.
2. Demonstrate the proper use of electrical test equipment to determine serviceability and repair necessary to automotive electrical components and systems.
3. Describe the theory of automotive electrical fundamentals and the application of those fundamentals regarding basic electricity, electromagnetism, and starting, charging, and ignition systems.
4. Show an introductory level knowledge of how an automotive computer uses electricity and Ohm's Law to process sensor inputs.
5. Read with understanding in order to perform competently as an Automotive Technician.
6. Convey ideas in writing in order to perform competently as an Automotive Technician.
7. Communicate effectively to perform competently as an Automotive Technician.
8. Use math to solve problems and communicate to fulfill responsibilities of an Automotive Technician.
9. Understand the expectations of the workplace, the responsibilities of an Automotive Technician and the methods of securing employment within the field.
10. Demonstrate the ability to use technology effectively in the workplace.

Credits: 6

Prerequisites: 2.0 or higher in ATEC 100 and ATEC 201.

Program: [Automotive Technology](#)