Automotive Electricity
Outline of Instruction

Course Information
Organization
Monroe County Community College, Applied Science and Engineering Technology
Development Date 12/20/2007
Course Number AUTO 102
Potential Hours of Instruction 60
Total Credits 4

Description
The practical application of electrical principles will be studied and include theory of operation, design and troubleshooting of starting motors, alternators, regulators and the complex electrical accessories found on modern automobiles. Use of automotive electrical test equipment will be stressed.

Major Units
- Batteries
- Starting Systems
- Charging Systems
- Ignition Systems
- Computer Ignition and Fuel Injection Systems
- Accessories

Textbooks
Duffy. Modern Automotive Technology.

Learner Supplies
Calculator.

Prerequisites
ELEC 125

Exit Learning Outcomes
General Education Outcomes
A. Communicate ideas in writing using the rules of standard American English
B. Apply mathematical approaches to the interpretation of numerical information
C. Apply mathematical approaches to the analysis of numerical information
D. Use computer technology to communicate information

Course Outcomes
1. Characterize chemical action of lead acid batteries
2. Test starting systems
3. Test charging systems
4. Test accessory systems
5. Practice shop safety
6. Recognize hybrid automotive operating systems