

AC/DC Circuits

Developed Date: 04/04/24

Credit Hours: 4

Description:

AC/DC circuits address the basics of direct and alternating current circuits.

(NOTE: This course is used in the Automation Engineer Technology and Industrial Machine/Maintenance Technology programs.)

Course Competencies:

Students will be able to:

1. Describe and apply Ohms, Watts, and Kirchhoff laws.
2. Define, demonstrate, and apply the characteristics of series, parallel, and combination circuits.
3. Explain DC theory concepts.
4. Explain AC theory concepts.
5. Perform and interpret electrical measurements using industry standard equipment.
6. Read and interpret electrical symbols and schematics.
7. Troubleshoot basic AC and DC circuits.

NOTE: Institutions may add additional competencies based on local demand.