

APR 101 : ELEC/MFG PLANT 1 - BASIC ELECTRIC THEORY

Transcript title

MPE 1 - Basic Electric Theory

Credits

4

Grading mode

Standard letter grades

Total contact hours

84

Other hours

84

Course Description

Students will be introduced to content in trade math, fundamental concepts of electricity, resistance, Ohm's law, series circuits, parallel circuits, grounding, grounding electrode systems, and the National Electrical Code. This course will be taught in a lecture/lab format with hands-on use of meters, power supplies, relays and switches.

Course learning outcomes

1. Solve mathematical formulas and equations related to theory and practices of the trade.
2. Describe and apply basic theory of electrical sources in DC series and parallel circuits.
3. Use a volt-ohmmeter and other test equipment to make electrical measurements.
4. Interpret the National Electrical Code requirements as they apply to the subject matter of the course.