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BASIC ELECTRICAL SYSTEMS based on 2008 THE NATIONAL ELECTRIC CODE

Course Description: This course is designed for use by maintenance personnel that want to get up to speed on the NEC in regards to their industrial environment. It covers all the normal daily job requirements from installation, debug, repair, and troubleshooting. It is good for those new to the field as well as journeyman and master electricians. The course provides a comprehensive overview of the National Electrical Code® along with hands-on training. Concise text and descriptive illustrations cover the Code and its application to wiring methods and materials, conductors and over current protection devices, branch circuits and feeders, grounding, transformers, services, special locations, calculations, and more.

Prerequisites: None

Textbook: Electrical Systems

Learning Objectives:

- The National Electrical Code®
- Branch circuits and feeders
- Calculations
- Services
- Conductors and over current protection
- Grounding
- Wiring Methods
- Wiring Materials–raceways and boxes
- Wiring Materials–switches, switchboards, and panel boards
- Equipment for general use
- Motors, generators, A/C & refrigeration, and fire pumps
- Transformers
- Special locations