

Electrical Systems In Hazardous Locations



The National Electrical Code® (NEC) defines hazardous locations as those areas “where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings.”

In this course you will identify hazardous zones, learn codes, standards and certification requirements.

Articles 500 through 504, and 510 through 517 provide classification and installation standards for the use of electrical equipment in the three classified hazardous locations: type, condition and nature. Also learn about design issues, proper grounding and bonding, safe wiring methods and maintenance techniques.

WHAT THIS COURSE COVERS

- Basic Installation Requirements
- Hazardous Location Identification
- Design Issues
- Grounding and Bonding
- Codes, Standards, Certification, and Marking
- Other Protective Schemes
- Wiring Methods
- Maintenance

WHO SHOULD TAKE THIS

- Electricians
- Linemen and Utility Workers
- Maintenance Technicians
- Fire Alarm Technicians
- Plant and Facility Maintenance Technicians
- Building Engineers
- Building Managers and Superintendents
- Plant and Facility Managers
- Environmental Health and Safety Personnel

COURSE OUTCOMES

- Perform Basic Installation Requirements
- Identify Hazardous Locations and Design Issues
- Understand Codes, Standards, Certification, and Markings
- Carry Out Other Protective Schemes and Maintenance
- Perform Grounding and Bonding

COURSE AGENDA

- What is a Classified Location
- Rules
- Hazardous Triangle
- Grounding and Bonding
- Classification of Specific Processes and Specific Occupancies
- Comparison of Different Areas and their Classifications
- Wiring Methods and Equipment Protection Systems
- Maintaining and Inspecting for Safety
- Hazardous Location Identification
- Grounding and Bonding Hazardous Location Equipment Codes, Standards, Certification and Marking
- Designing to Avoid Electrical Equipment in Classified Areas



Lecture



Hands-on



ONSITE: 2-days (16 hours)



LIVE ONLINE: 2-Days (16 hours)



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