

Electrical Systems: Soares Grounding & Bonding for 2023



The Electrical Systems: Soares Grounding & Bonding for 2023 course provides **focused training** on grounding and bonding systems in compliance with the 2023 National Electrical Code (NEC). It covers key concepts, installation techniques, and safety measures to ensure technicians can properly ground and bond electrical systems across various environments, including residential, commercial, and industrial installations. Technicians will gain knowledge of grounding electrode systems, bonding enclosures and equipment, implementing ground fault protection, and ensuring compliance with NEC standards.

WHAT THIS COURSE COVERS

- Define Grounding and Bonding According to NEC 2023
- Grounding Electrode Systems and Their Installation
- Bonding Requirements for Enclosures, Equipment, and Structural Components
- Ground Fault Protection Devices, Including GFCIs
- Equipment Grounding Conductors: Sizing and Installation
- Service Entrance Bonding and Grounding Techniques
- Grounding and Bonding in Commercial and Industrial Settings

WHO SHOULD TAKE THIS

- Electricians Working in Residential, Commercial, and Industrial Settings
- Electrical Maintenance Personnel Responsible for System Safety and Compliance
- Facility Managers Overseeing Electrical System Installations
- Engineers Involved in Electrical System Design and Planning
- Health & Safety Officers (EHS) Focused on Electrical Safety Regulations

COURSE OUTCOMES

- Become Familiar with the Key Concepts of Grounding and Bonding in Compliance with NEC 2023
- Learn How to Identify and Install Grounding Electrode Systems for Different Environments
- Understand the Proper Application of Ground Fault Protection Devices, Including GFCIs
- Learn How to Apply Bonding Techniques for Electrical Enclosures and Equipment
- Ensure the Safe Installation of Equipment Grounding Conductors and Service Entrances

COURSE AGENDA

- Introduction to Grounding and Bonding under NEC 2023
- Grounding and Bonding Definitions
- General Fundamentals of Grounding and Bonding Systems
- Ground Fault Protection Devices and GFCIs
- Grounding Electrode Systems: Types and Installation
- Bonding of Enclosures and Equipment
- Equipment Grounding Conductors: Sizing and Application
- Service Entrance Bonding Techniques



Lecture



Hands-on

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ONSITE: 2-days (16 hours)

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LIVE ONLINE: 2-Days (16 hours)



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