

# 2017 NEC NATIONAL ELECTRICAL CODE TRAINING



### 2-DAY COURSE WITH CERTIFICATION

Designed for Maintenance Technicians, Electricians & Engineers Comply with the New 2017 NEC® Code Changes

- Identify Key NEC® Electrical Terms
- ► Locate Information Required for Individual Jobs
- Determine the Applicability of NEC® Code Rules
- ➤ Understand the most Important 2017 NEC® Changes
- Learn How to Apply Tables in Solving Typical Electrical Wiring & Raceway Problems

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# 2017 NEC® NATIONAL ELECTRICAL CODE TRAINING

The NEC® is updated every three years as the United States standards for the electrical codes. Included as a part of the American National Standards Institute (ANSI), the National Electrical Code® (NEC®) is more widely used than any other installation or construction code in the world. Its purpose is to provide anyone working with electricity the most up-to-date, best practices for safe installation and maintenance of electrical systems and equipment.

The purpose of this training is to help contractors, maintenance technicians, electricians & engineers understand the new 2017 Code® changes and meet compliance with United States standards for electrical codes. Attendees will learn:

- How to Navigate the National Electrical Code®
  - Learn About the Many 2017 Code Changes
    - Application of Safety to Specific Equipment and Tasks Found in Your Plant



#### 2 DAY WORKSHOP AGENDA

#### Introduction to the National Electric Code®

- Purpose of NEC®
- Differences Between NEC® Book Chapters
- Quickly Find the Right Chapter
   & Information in the NEC®

#### Finding Specific Information in Chapter 1-General

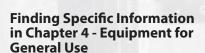
- Keywords & Definitions you Must Know
- Installation Requirement Topics

#### Finding Specific Information in Chapter 2-Wiring and Protection

- Use and Identification of Grounded Conductors
   Branch Circuits
- Feeders
- Branch-Circuit, Feeder & Service Calculations
   Outside Branch Circuits & Feeders
- Services
- Over-current Protection
- Grounding & Bonding
- Transient Voltage Surge Suppressors

#### Finding Specific Information in Chapter 3-Wiring Methods & Materials

- Wiring Methods
- Conductors for General Wiring
- Cabinets, Cutout Boxes, Meter Socket Enclosures Outlet, Device, Pull and Junction Boxes; Conduit Bodies; Fittings; and Manholes Armored Cable: Type AC
- Nonmetallic-Sheathed Cable: Types NMB, NMC & NMS
- Flexible Metal Conduit: Type FMC
- Liquid-tight Flexible Metal Conduit & Nonmetallic Conduit
- Auxiliary Gutters
- Bus-ways
- Cablebus
- Metal Wireways
- Surface Metal Raceways
- Surface Nonmetallic Raceways
- Cable Trays



- Flexible Cords & Cables
- Fixture Wires
- Switches
- Receptacles, Cord Connectors & Attachment Caps Switchboards & Panel-boards
- Luminaries, Lamp Holders, Lamps
- Appliances
- Fixed Electric Space-Heating Equipment
- Motors, Motor Circuits & Controllers, Including Disconnecting Means for Motors
- Air Conditioning& Refrigeration Equipment
- Equipment over 600 volts, Nominal

#### **Finding Specific Information in Chapters 5-8**

- The Interrelationships Between the First Four Chapters and These Chapters
- Special Occupancies
- Special Equipment
- Special Conditions
- Communication Systems

#### **Finding Specific Information in Chapter 9**

· How to Quickly Use Ready Information

# On-SITE TRAINING & KEYNOTE SPEAKING

NEC® 2014 OR 2017

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