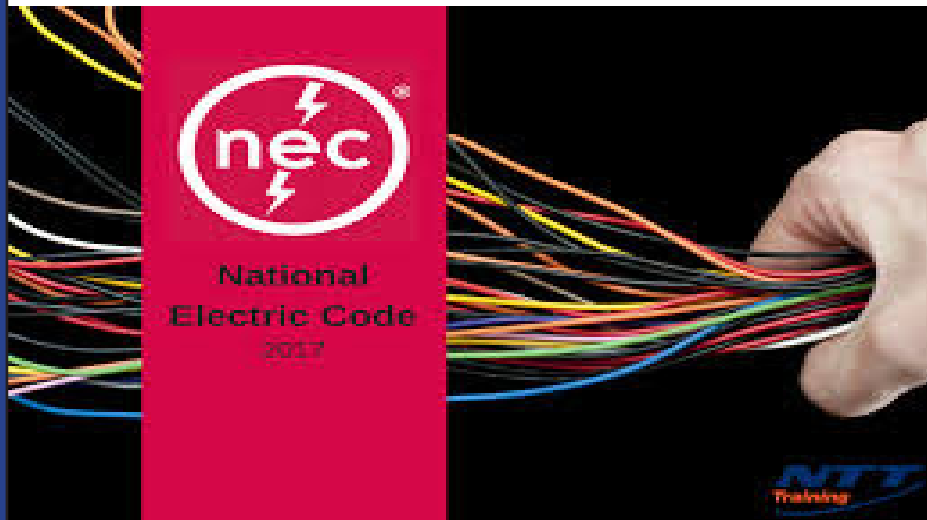


Introduction to National Electrical Code



This Course provides a solid understanding of how to navigate the National Electrical Code as it applies to maintenance technicians. It explains terminology and definitions used in the National Electric Code. Understanding the purpose, language, and organization of NFPA 70: National Electrical Code (NEC) is critical to proper installation and maintenance of electrical equipment. This course was developed especially for maintenance technicians. With easy to understand explanations of the code by an experience technician, this course is foundational to maintaining a safe and reliable electrical system.

Electrical Code

Introduction to National Electrical Code

Selected Topics From These Areas

- Introduction to the National Electrical Code (NEC)
- NEC layout as the first step in successful navigation
- Differences between chapters 1-4 and 5-9
- How to quickly put yourself in the right chapter of the National Electrical Code
- Finding Specific Information in Chapter 1 General:
 - Key words and definitions you must know
 - Installation requirement topics
- Finding Specific Information in Chapter 2 Wiring and Protection on: Use and Identification of Grounded Conductors
 - Branch Circuits
 - Feeders
 - Branch-Circuit, Feeder and Service Calculations
 - Outside Branch Circuits and Feeders
 - Services
 - Overcurrent Protection
 - Grounding
 - Transient Voltage Surge Suppressors
- Finding Specific Information in Chapter 3 Wiring Methods and Materials on:
 - 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
 - Nonmetallic-Sheathed Cable: Types NM, NMC and NMS
- Flexible Metal Conduit: Type FMC
- Liquidtight Flexible Metal Conduit: Type LFMC Rigid Nonmetallic
- Conduit: Type RNC
- Liquidtight Flexible Nonmetallic Conduit: Type LFNC Electrical Nonmetallic
- Tubing: Type ENT
- Auxiliary Gutters
- Busways
- Cablebus
- Metal Wireways
- Surface Metal & Nonmetallic Raceways
- Cable Trays
- Finding Specific Information in Chapter 4: Equipment for General Use on:
 - Flexible Cords and Cables
 - Fixture Wires
 - Switches
 - Receptacles, Cord Connectors, and Attachment Caps Switchboards and Panelboards
 - Luminaires, Lamp holders, Lamps
 - Appliances
 - Fixed Electric Space-Heating Equipment
 - Motors, Motor Circuits, and Controllers, including Disconnecting
 - Means for Motors
 - Air Conditioning and Refrigeration Equipment
 - Transformers and Transformer Vaults
 - Equipment over 600 Volts, Nominal
- Finding Specific Information in Chapters 5 through 8 on:
 - The interrelationships between the first four chapters and these chapters
 - Special Occupancies

Introduction to National Electrical Code

- Special Equipment
- Special Conditions
- Communication Systems
- Finding Specific Answers from Tables in Chapter 9

Introduction to National Electrical Code

Who Should Attend:

- Energy management personnel
- Apprentice and experienced HVAC technicians
- IT Technicians
- Fire Alarm Technicians
- Electricians
- Multi-craft personnel
- Plant & facility maintenance technicians
- Building engineers
- Building managers & superintendents
- Plant & facility managers
- Stationary engineers
- Anyone who works with electrical systems and circuits.

Onsite Training:

- We offer onsite training at your facility.
- We can provide the same courses as we offer in public seminars. We can even design courses especially to meet your needs.

Advantages of On-Site Training:

- Modify the content to your specific needs
- Protect company privacy
- Workers remain on site in case of an emergency
- Saves time and travel costs
- Instructors can discuss your specific equipment
- Problems can be openly discussed
- Flexible scheduling
- Increased price savings as the groups get larger
- Promote teamwork & camaraderie among workers
- More comfortable learning environment

Class Options:

2 Day Class

- Introduction to the National Electrical Code

3 Day Class

- National Electrical Code for Maintenance Technicians

5 Day Class – National Electrical Code Workshop

- Introduction to the National Electrical Code - 2 Days
- National Electrical Code for Maintenance Technicians - 3 Days

Note: The 5 day workshop combines Introduction to the National Electrical Code and National Electrical Code for Maintenance Technicians to form a 5 day class.