



2020 NEC Training for SAME Members  
April 13-15, 2021 | 7am Japan Standard Time



Live Online Training

# 2020 National Electric Code

**April 13-15, 2021 | 21 hours, 2.1 CEUs | \$1,400**

This training, like all of our Live Online Trainings, will be highly interactive.

Each registration includes

- the 2020 NEC Code Book by NFPA
- and the 2020 NEC Workbook by NTT.

This class will be relevant for those working in electrical design (architectural designers, inspectors, maintenance...). The instructor will emphasize wire and conduit sizing, fuse and breaker sizing, GFI Outlets, AF (Arch Flash) outlets, and other common issues for building construction.

This course covers the major changes and instructors will answer your questions about specific work scenarios and applications so you can make the code work for you. After all, whether running power to a new piece of electrical equipment, setting the overloads on a motor starter, installing a security camera, or replacing fluorescent ballast; compliance with the NEC® is mandatory.

## Students will be able to:

- Understand how NEC safeguards people and property.
- Make your facility and operations NEC compliant.
- Become current with the most recent NEC updates.

To register or if you have questions contact Drew McDowell at [dmcdowell@nttinc.com](mailto:dmcdowell@nttinc.com) or call (720) 276-2550 (cell & WhatAapp), or Brian Shafer at [BrianShafer70@gmail.com](mailto:BrianShafer70@gmail.com) or call 080-6480-1970.



NTT Courses

## 2020 National Electric Code

### INTRODUCTION AND OVERVIEW

- Successful Code navigation requires an overview of NEC purpose, content and layout, and how to identify changes.
- Basic requirements of Articles 90 and 110. Termination and torque requirements, working spaces and, arc flash hazard labeling.

### GROUNDING AND BONDING

- Identified by the NFPA as the most misunderstood topic in the NEC, NTT instructors remove the confusion as they explain the “why and how” of Article 250.
- Performance requirements of 250.4, sizing EGC’s, GEC’s and grounded conductors, installation methods, system grounding, separately derived systems, bonding requirements and, grounding of systems over 1000 volts.

### WIRING AND PROTECTION

- Branch circuits, feeders, fuses, circuit breakers are all parts of the distribution system that run from the utility service to the individual loads and all must be properly sized and installed.
- Chapter 2 in-depth information: Sizing feeders and branch circuits in facilities, overcurrent selection and sizing, surge arresters and protective devices.

### WIRING METHODS AND MATERIALS

- Installing conductors, cables and conduits properly is necessary for an electrically safe installation.
- Chapter 3 in-depth topics: Ampacity calculations, box fill, pull-box sizing, cover requirements, typically used cables and conduit installation requirements and, cable tray.

### EQUIPMENT FOR GENERAL USE

- Everyday installation and maintenance electrical work is addressed on typical equipment, such as; motors, plant lighting, HVAC equipment, panelboards to switchgear and, industrial control panels.
- Selected articles from Chapter 4, Equipment for General Use: Motors, HVAC type equipment, Industrial control panel installation, typical commercial and industrial lighting applications, and requirements for panelboards, switchboards and switchgear.

### SPECIAL OCCUPANCIES, EQUIPMENT AND CONDITIONS AND, COMMUNICATION SYSTEMS

- Based on student needs, specific industry topics are reviewed.
- Overview of typical articles include hazardous locations, temporary installations, emergency systems, fire alarm systems and some communications circuits

