### Learning Objectives

You’ll be able to:

**Explain** new articles on overvoltage protection, medium voltage conductors and communication systems in the 2020 National Electrical Code.

**Discuss** dwelling service disconnect requirements, required surge protection, and other major changes to the brand new 2020 National Electrical Code.

**Understand** the limited access working space requirement and short-circuit current documentation.

**Learn** about GFCI protection for non-dwelling units and single phase dwelling services and feeders.

**Identify** requirements for emergency systems, fire alarm circuits and communications circuits.

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### Agenda

**Overview of Major Changes in 2020 National Electrical Code**
- Fault current references
- Alignment of GFCI requirements
- Ampacity of conductors

**New Articles for the 2020 NEC**
- Overvoltage protection
- Medium voltage conductors
- Type P cable

**Chapter 1: NEC General, Articles 100 – 110**
- Definitions
- Electrical connections
- Identification of disconnecting means
- Space about electrical equipment

**Chapter 2: Wiring and Protection, Articles 210 – 250**
- Grounded conductors
- Branch circuits
- Overvoltage protection

**Chapter 3: Wiring Methods, Articles 300 – 370**
- Conductors for general wiring
- Type P cable

**Chapter 4: Equipment for General Use, Articles 400 – 490**
- Switches
- Luminaries
- Motor circuits

**Chapter 5: Special Occupancies, Articles 500 – 590**
- Classified locations
- Motor fuel dispensing facilities
- Agricultural buildings
- Marinas and docks

**Chapter 6: Special Equipment, Articles 600 – 695**
- Electric signs
- Electric vehicles
- Optical fiber cables

**Chapter 7: Special Conditions, Articles 700 – 770**
- Emergency systems
- Critical operations power systems
- Optical fiber cables

**Chapter 8: Communications Systems, Articles 800 – 840**
- General requirements
- Communications circuits

**Chapter 9: Tables and Informative Annexes**
- Annex C raceway fill
- Annex D examples

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### Live in-Person Seminar or Live Online Webinar

**National Electrical Code 2020**

Columbus, OH - Friday, April 17, 2020

**Discuss** major changes in the brand new 2020 National Electrical Code.

**Learn** in-depth, chapter-by-chapter specifics of the 2020 National Electrical Code.

**Get** an overview of new 2020 NEC Articles.

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**Continuing Education Credits**

- **Professional Engineers**
  - 7.0 CPD Hours/PDHs
- **Architects**
  - 7.0 HSW Continuing Ed. Hours
  - 7.0 AIA LU|HSW

**Ohio Electrical Contractors**
- Pending

**International Code Council**
- 7.0 CEUs (Electrical)

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As a result of recent health and safety concerns, this seminar will also be offered as a live webinar. Instructions will be sent via email before the date of the webinar. Visit us online at www.halfmoonevents.org to learn more.
Additional Learning

Webinar Series

Structural Forensic Engineering
• Overview of the Role of Forensic Engineering
  Thurs., April 16, 2020, 11:00 - 12:30 PM CDT
• Forensic Engineering Process and Forensic Engineering Report
  Thurs., April 16, 2020, 1:00 - 3:00 PM CDT
• Causes of Structural Failures
  Fri., April 17, 2020, 11:00 - 12:30 PM CDT
• Forensic Examination of Structures and Use in Litigation
  Fri., April 17, 2020, 1:00 - 5:00 PM CDT

Water Conservation
• Reviewing the Owner’s Commitment to Water Conservation and Applicable Codes and Standards
  Thurs., April 23, 2020, 11:00 AM - 12:30 PM CDT
• Assessing the Building Site
  Thurs., April 23, 2020, 1:00 - 2:00 PM CDT
• Conserving and Reducing Water Use
  Fri., April 24, 2020, 11:00 AM - 1:00 PM CDT
• Onsite Water Recycling and Minimizing Water Use
  Fri., April 24, 2020, 1:30 - 5:30 PM CDT

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