

Webinar Information

Online - Monday, September 30, 2024

Log into Webinar

8:00 - 8:30 am CDT

Break

12:30 - 1:30 pm CDT

Morning Session

8:30 am - 12:30 pm CDT

Afternoon Session

1:30 - 5:00 pm CDT

Tuition

\$339 for individual registration.

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How to Register

- Visit us online at www.halfmoonseminars.org
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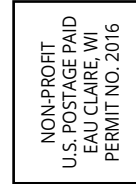


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2023 National Electrical Code in Texas

Live, Interactive Webinar - Monday, September 30, 2024



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Discuss major changes in the 2023 National Electrical Code.

Talk about the relationship between the 2023 NEC and Texas state and local codes.

Comply with provisions on wiring and protection.

Meet requirements for grounding and bonding.

Identify provisions that regulate equipment for general use.

Discuss special occupancies, special equipment and special conditions.



HalfMoon Education Inc., Your LIVE Education Leader Presents 2023 National Electrical Code in Texas

Live, Interactive Webinar - Monday, September 30, 2024



Explore the development of the National Electrical Code 2023 and its adoption in Texas

Discuss provisions on wiring, and on grounding and bonding

Comply with requirements for equipment for general use and for special occupancies

Meet requirements for renewable energy systems and electric vehicle charging systems

Learn about premise and network powered broadband communication systems

Continuing Education Credits

Professional Engineers

7.0 PDHs

International Code Council

.7 CEUs (Electrical)

Architects

7.0 HSW CE Hours

7.0 AIA LU | HSW

ATA
Continuing
Education
Provider



Agenda

2023 National Electrical Code & State of Texas NEC Adoption

- State of Texas NEC Adoption
- Relationship between the 2023 NEC & Texas state & local codes
- Texas case studies
- Overview of major changes in 2023 NEC

Chapter 1: National Electrical Code

- Requirements for electrical installations, including clearances and free space requirements about equipment

Chapter 2: Wiring and Protection

- Grounded conductors
- Branch circuit, feeder and services calculations
- GFCI receptacle outlet requirements
- Transformer overcurrent protection
- Voltage drop calculations
- Service requirements

Grounding and Bonding

- Grounding of service entrances
- Grounding of separately derived system
- Grounding electrodes
- Sizing of grounding electrode and grounding conductor
- Bonding of services

Chapter 3: Wiring Methods and Materials

- Wiring methods—underground installation requirements
- Conductors for general wiring
- Conductor ampacity correction and adjustments
- Number of conductors in a raceway
- Pull and junction box fill calculation

Chapter 4: Equipment for General Use

- Flexible cords and cables
- Switchboards and panel boards
- Luminaires, appliances, transformers and motors
- Receptacle requirements
- Short circuit rating

Chapter 5: Special Occupancies

- Hazardous locations
- Health care facility requirements
- Commercial garages
- Recreational vehicle parks

Chapter 6: Special Equipment

- Signs, outline lighting, elevators
- Data center requirements
- Solar photovoltaic systems
- Hybrid vehicle plug in requirements
- Pools and spas
- Small wind turbine systems

Chapter 7: Special Conditions

- Emergency systems
- Class 1, 2, and 3 power-limited circuits
- Fire alarm circuits

Chapter 8: Communications Circuits

- Premises-powered broadband communication systems
- Network-powered broadband communication systems

Chapter 9: Tables

- Conductor fill and raceway calculation example

Faculty

Chad Kurdi

Electrical Engineering Discipline Lead, Partner at BKV Group

Mr. Kurdi has been serving the electrical industry for over 30 years as an engineer, electrician, and trainer. He has engineered (design, specify, and analyze) government buildings (police stations, sheriff's offices, fire stations, city halls, court houses, libraries, and jails), housing buildings (affordable, senior, assistant, memory care, adaptable use, and student), hospitals, data centers, sport arenas, commercial office buildings, water/wastewater treatment plants and electric utility distribution, and substations. Mr. Kurdi's electrician experience includes estimating, laying out, wiring, installing, and maintaining electrical systems for residential and commercial buildings. He has developed and taught thousands of seminar hours over the years at Dunwoody College of Technology, Minnesota Electrical Association, IEEE, and others. The seminars include NEC Code, electrician's exam, MV system, electrical wiring, apprenticeship, estimation, electrical design, Revit MEP, and project management. Mr. Kurdi holds a bachelor of Science degree in Electrical Engineering and a master's degree in Adult Education. He is a registered electrical engineer (PE) in 37 states. Mr. Kurdi holds a Class A master electrician license from the State of Minnesota. Currently, he is a senior electrical engineer and department head at BKV Group (A&E Firm with offices in Chicago, Dallas, DC, and Minneapolis). Mr. Kurdi served as NCEL board member (Jan. 2021 – present), IAEI MN chapter president (Jan. 2018 - Jan. 2023), chair of IEEE Twin Cities PES/IAS (Aug. 2019 - Jan. 2023), Minnesota State Board of Electricity Member (Jan. 2018 - Jan. 2020).

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for licensed architects in Texas.

The Texas Board of Professional Engineers and Land Surveyors (TBPELS) and the Texas Board of Architectural Examiners (TBAE) do not pre-approve courses or register providers for continuing education.

The American Institute of Architects Continuing Education System has approved this webinar for 7.0 HSW learning units. (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Electrical (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

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7.0 HSW LUs (AIA)

Additional Learning

Residential and Small Commercial Roof Design and Construction

- Friday, September 6, 2024 | 9:00 am - 4:30 pm CDT

Engineered Lumber Design and Construction

- Monday, September 9, 2024 | 9:00 am - 5:00 pm CDT

2024 International Building Code: Occupancy Classifications

- Tuesday, September 10, 2024 | 12:00 - 4:30 pm CDT

Ethical Issues in Structural Engineering

- Tuesday, September 10, 2024 | 10:00 - 11:00 am CDT

Plumbing Basics for Non-Plumbing Professionals

- Tuesday, September 10, 2024 | 8:30 am - 3:30 pm CDT

Complying With the International Existing Building Code

- Thursday, September 12, 2024 | 9:00 am - 5:00 pm CDT

Designing and Constructing for Carbon Neutrality

- Friday, September 13, 2024 | 9:00 am - 4:00 pm CDT

Project Management for Engineers

- Friday, September 13, 2024 | 9:00 am - 5:30 pm CDT

Pumping and Piping Systems

- Thursday, September 19, 2024 | 9:00 am - 12:15 pm CDT
- Friday, September 20, 2024 | 9:00 am - 12:15 pm CDT

Reinforced Concrete Building Design and Construction

- Thursday, September 19, 2024 | 8:30 am - 4:30 pm CDT

Using RSMean Data to Create Cost Estimates

- Thursday, September 19, 2024 | 9:00 am - 4:30 pm CDT

Distinguishing Between Construction Defects and Failures

- Wednesday, September 25, 2024 | 1:00 - 3:00 pm CDT

Solar Photovoltaic Covered Parking Facilities

- Monday, September 30, 2024 | 10:00 am - 12:00 pm CDT

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