

Agenda

Presented by JD White

2023 Ohio Electrical Code: Overview of Major Changes

Overview of major changes in 2023 National Electrical Code
Code adoption and amendment in Ohio
Permitting, inspection and enforcement

Chapter 1: National Electrical Code

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

Chapter 2: Wiring and Protection

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

Grounding and Bonding

Grounding of service entrances
Grounding of separately-derived systems
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 Receptacle requirements
Switchboards and panel boards Short circuit rating
Luminaires, appliances, transformers and motors

Chapter 5: Special Occupancies

Hazardous locations Commercial garages
Health care facility requirements Recreational vehicle parks

Chapter 6: Special Equipment

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

Ohio Electrical Code 2023

Live, Interactive Webinar - Friday, September 6, 2024

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Learning Objectives

You'll be able to:

Review major changes in the 2023 Ohio Electrical Code.

Explore requirements for electrical installations.

Comply with code provisions on grounding, bonding and wiring.

Review code requirements for equipment for general use as well as equipment for special occupancies.

Discuss special equipment including equipment for data centers, renewable energy systems and electric vehicle charging systems.



HalfMoon Education Inc.,
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Ohio Electrical Code 2023

Live, Interactive Webinar - Friday, September 6, 2024



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

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

Discuss provisions on wiring, and on grounding and bonding

Meet requirements for renewable energy systems and electric vehicle charging 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

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Webinar Information

Online - Friday, September 6, 2024

Log into Webinar

8:00 - 8:30 am EDT

Break

12:30 - 1:00 pm EDT

Morning Session

8:30 am - 12:30 pm EDT

Afternoon Session

1:00 - 4:30 pm EDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

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Faculty

JD White

Professor of Electrician Education, Freelance Electrical System Design and Drafting
Professor White's 48 years' experience in the electrical industry, 25 years of teaching apprentices, and years of experience teaching CEU courses for electrical contractors, architects, and engineers has provided perspectives he enjoys sharing. He has written and revised more than 150 college course syllabi, transitioned an entire Skilled Trades Catalog of courses from quarter hours to semester hours and has created and changed numerous college programs of study for associate degrees and various trade certificates. He has taught for IEC Central Ohio, Columbus State Community College, and most recently Midlands Technical College Columbia, South Carolina. Professor White has also been teaching CEU Seminars for various training agencies and private companies since 2007. He has a strong understanding of the National Electric Code and he tries to create interactions with seminar attendees. Regarding electrical system design, he has completed over one hundred projects from simple single buildings, multiple occupancy strips and multi-use buildings.

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 Ohio.

Ohio's State Board of Registration for Professional Engineers and Surveyors does not pre-approve continuing education providers or activities. The Ohio Architects Board accepts courses approved by the American Institute of Architects.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (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

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
7.0 HSW LUs (AIA)

Additional Learning

Structural Forensic Engineering of Buildings

- Wednesday, August 7, 2024 | 10:00 am - 5:50 pm EDT

Residential Elevators and Lifts

- Monday, August 12, 2024 | 3:00 - 5:00 pm EDT

2024 International Building Code: Code Fundamentals

- Tuesday, August 13, 2024 | 1:00 - 5:30 pm EDT

Office Acoustics Design Workshop

- Tuesday, August 13, 2024 | 2:00 - 4:00 pm EDT

Tiny House Design and Construction

- Tuesday, August 13, 2024 | 10:00 am - 6:15 pm EDT

Engineering Ethics and Engineering Code of Conduct for Professional Engineers

- Friday, August 16, 2024 | 11:00 am - 1:00 pm EDT

Finance and Engineering Economics for Engineers

- Monday, August 19, 2024 | 11:00 am - 3:30 pm EDT

- Tuesday, August 20, 2024 | 11:00 am - 3:30 pm EDT

Basics of Structural Steel Design and Construction

- Tuesday, August 20, 2024 | 9:30 am - 5:30 pm EDT

Complying with NFPA 101 (2021): Life Safety Code

- Wednesday, August 21, 2024 | 9:30 am - 6:00 pm EDT

Designing and Constructing Net-Zero Energy Homes

- Friday, August 23, 2024 | 9:30 am - 5:00 pm EDT

Improving Interior Air Quality in Residential and Commercial Buildings

- Friday, August 23, 2024 | 1:00 - 3:00 pm EDT

Flood-Resistant Design and Construction

- Monday, August 26, 2024 | 10:00 am - 5:30 pm EDT

2024 International Building Code: Administration and Enforcement

- Tuesday, August 27, 2024 | 1:00 - 5:30 pm EDT

Complying with Commercial Provisions of the 2021 International Energy Conservation Code

- Tuesday, August 27, 2024 | 10:00 am - 5:30 pm EDT

How to Calculate the Proper Size and Volume for Water Lines (Pex & Copper), Drain-Waste-Vent Lines and Natural Gas Lines

- Tuesday, August 27, 2024 | 9:30 am - 4:30 pm EDT

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