Agenda

Presented by JD White

2023 National Electrical Code: Development and Adoption
- Overview of major changes in 2023 NEC
- Adoption process in Michigan
- Michigan amendments
- Enforcement in Michigan

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

2023 Michigan Electrical Code
Live, Interactive Webinar - Friday, August 16, 2024

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Learning Objectives

You'll be able to:

Review major changes in the 2023 NEC, and discuss the adoption of the Code in Michigan.

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 datacenters, renewable energy systems and electric vehicle charging systems.

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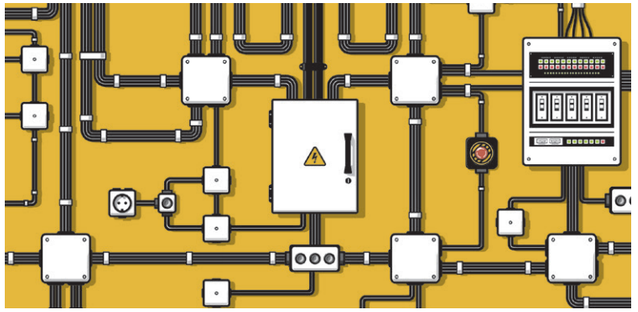

Explore the development of the National Electrical Code 2023 and its adoption in Michigan

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

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours
7.0 AIA LU|HSW

International Code Council
.7 CEUs (Electrical)

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Online - Friday, August 16, 2024

Log into Webinar
8:00 - 8:30 am EDT

Break
12:30 - 1:30 pm EDT

Morning Session
8:30 am - 12:30 pm EDT

Afternoon Session
1:30 - 5:00 pm EDT

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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, including his 25 years of teaching apprentices and 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. He transitioned the entire skilled trades catalog of courses from quarter hours to semester hours. He 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 in 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 Electrical Code and tries to create interactions with seminar attendees. Regarding electrical system design, Professor White has completed more than 100 projects including 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 Michigan.

The Michigan Board of Professional Engineers do not require pre-approval of continuing education courses. The Michigan Department of Licensing and Regulatory Affairs recognizes 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

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7.0 HSW LUs (AIA)

Additional Learning

Introduction to Groundwater Modeling
- Tuesday, July 16, 2024 | 10:00 am - 5:00 pm EDT

It Doesn't End in August – Extending Interest in the Garden
- Tuesday, July 16, 2024 | 9:30 am - 12:15 pm EDT

Roadmap to Ethical Issues in Construction: A Primer for Design Professionals
- Tuesday, July 16, 2024 | 12:00 - 2:00 pm EDT

Shallow Foundation Design, Construction and Repair
- Tuesday, July 16, 2024 | 9:30 am - 5:30 pm EDT

Brownfield Planning and Redevelopment
- Wednesday, July 17, 2024 | 11:00 am - 1:00 pm EDT

Deep Dive into Cool Roofs and Cool Walls
- Wednesday, July 17, 2024 | 1:30 - 3:30 pm EDT

Threats to Trees and How to Increase Their Survival
- Wednesday, July 17, 2024 | 12:00 - 4:00 pm EDT
- Thursday, July 18, 2024 | 12:00 - 3:30 pm EDT

Introduction to Stormwater Modeling
- Thursday, July 18, 2024 | 10:00 am - 5:00 pm EDT

Landscaping for Pollinators
- Thursday, July 18, 2024 | 11:00 am - 1:00 pm EDT

Deep Dive into PFAS in Our Water
- Wednesday, July 24, 2024 | 10:00 am - 1:15 pm EDT

Applying the Building Code to Cannabis Facilities
- Friday, July 26, 2024 | 9:30 am - 4:30 pm EDT

Using the State Plane Coordinate System
- Friday, July 26, 2024 | 10:00 am - 2:30 pm EDT

Historic Preservation, Restoration and Rehabilitation
- Monday, July 29, 2024 | 10:00 am - 5:00 pm EDT

High-Performance Building Envelope Design and Construction
- Monday, July 29, 2024 | 9:30 am - 5:00 pm EDT

Modular Construction and Prefabricated Components: Residential, Multi-Family and Commercial Buildings
- Tuesday, July 30, 2024 | 10:00 am - 4:50 pm EDT

Understanding Colonial Surveys
- Wednesday, July 31, 2024 | 3:00 - 4:00 pm EDT

Working with Old Deeds and Descriptions
- Monday, August 5, 2024 | 1:00 - 4:15 pm EDT

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