

Agenda

Editions and New Articles

New editions	2014 edition and 2017 edition
Usability features	New articles in the 2014 NEC
New articles in the 2017 NEC	

Code-Wide Changes

Voltage threshold raised from 600 to 1000 volts in a number of locations
New section for field-applied hazard markings
Requirements for lockable disconnecting means are now in Article 110

Article 90 and Article 100

Purpose and Scope One new definition in the 2014 edition
Definitions moved from other articles
Revised and new definitions

Article 110

Tightening torque	Arc-flash hazard warning	Available fault current
Short-circuit current	Working space	Limited access
Dedicated equipment space		

Articles 200, 210, and 215

Grouping	Ground-fault circuit-interrupter (GFCI) protection
Arc-fault circuit-interrupter (AFCI) protection	
Branch-circuit conductors	Required receptacle outlets
Meeting rooms	Pressure connectors

Articles 220, 225, 230, and 240

Overhead service conductors	Types of disconnects
Service conductors in cable trays	
New Table 240.6(A)	Arc energy reduction

Article 250

Permitted connection methods	Separately derived systems
Grounding electrode conductor	Common grounding electrode conductor
Metal frame of a building	Grounding electrode conductor installation
Electrode extension	Intersystem bonding
Tables 250.66 and 250.102(C)(1)	
Substations	

Chapter 3 – Wiring Methods and Materials

Supporting cables in plenums	Table 310.15(B)(3)(a)	Table 310.15(B)(3)(c)
Table 310.15(B)(7)	Drainage openings	Drywall screws not permitted
Vertical surface outlet	Liquidtight flexible metal conduit	

Chapter 4 –Equipment for General Use

Switches controlling lighting loads		
Tamper-resistant receptacles	Receptacles in wet locations	Wire bending space
Under roof decking	Rooftop air-conditioning equipment	
Dry-type transformer enclosures		

Chapters 5, 6, and 7

Definitions as applied to hazardous (classified) locations
Major and minor repair garages
Article 516 – revised and reorganized
Article 517 – new and revised definitions
Patient care space and patient care vicinity
Isolated ground receptacles Required receptacles in health care facilities
Selective coordination

Significant NEC Changes: 2014 and 2017 Editions

Nashville, TN - Tuesday, February 25, 2020



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Learning Objectives

You'll be able to:

Review new articles in the 2014 and 2017 versions of the National Electrical Code (NEC).

Focus on code-wide changes in the 2014 and 2017 NECs, including voltage threshold increase from 600 to 1000 volts in a number of locations.

Identify changes to NEC Chapter 3 on wiring methods and materials, including supporting cables in plenums and the prohibition on the use of drywall screws.

Discuss changes to NEC Chapter 4 on equipment for general use, including switches controlling lighting loads, tamper-resistant receptacles, and receptacles in wet locations.

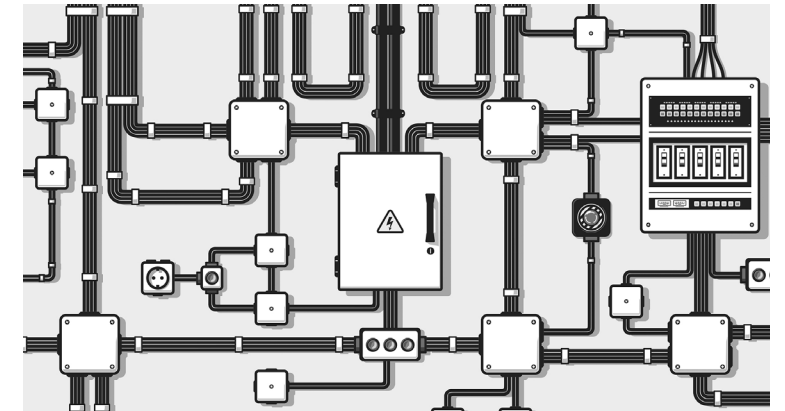
Describe NEC changes for repair garages, patient care spaces, health care facilities and hazardous locations.



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Discuss new articles in the 2014 and 2017 National Electrical Codes

Review code-wide changes

Comply with changes in NEC Chapter 2, including GFCI and AFCI protection requirements

Discuss changes to Chapter 3 on wiring methods and materials

Describe changes to Chapter 4 equipment for general use

Identify changes to Chapters 4-7

Continuing Education Credits

Architects

7.0 HSW PDHs
7.0 AIA LU|HSW

Professional Engineers

7.0 HSW PDHs

International Code Council

.7 CEUs (Fire)

Tennessee Code Inspectors

Applied/Pending - Fire

Tennessee Home Inspectors

7.0 CE Hours

Contractors

Non-Credit CE



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Faculty

Charles R. Miller *Master Electrician, business owner, author, educator in Lebanon, TN*

Mr. Miller spent 18 years as a successful business owner and electrical contractor. Since then, he has focused his time and energy on writing and teaching to promote knowledge and proficiency among engineers, electricians, and tradespeople in the field. Throughout his career, he has passed more than 45 Master Electrical exams (with a score of 93 or higher) and seven Electrical Inspector exams. As an author and illustrator, he has an extensive list of electrical-related publications to his credit, including some published by the National Fire Protection Association (NFPA). Mr. Miller also sits on two NFPA committees, including the committee for the NFPA 70E standard.

“Even as an electrician and contractor working in commercial and industrial environments, I’ve always been a very visual person,” says Mr. Miller. “Codes and standards can be very difficult and very dry. As an instructor I try to convey the information in a way that enables my students to visualize more so they’ll retain the information and actually put it to good use.”

In 1988 he began to focus and dedicate himself to electrical-related training. Besides teaching his own custom tailored classes and seminars covering various aspects of the electrical industry, Mr. Miller partners with some of the top electrical training organizations in the country. His list of achievements include teaching with the National Fire Protection Association (NFPA).

His work as an author and illustrator includes: *Illustrated Guide to the National Electrical Code* (Delmar Cengage Learning, 1999 – present); “Code In Focus” column for *Electrical Contractor* magazine (1999 – present); *Pocket Guide to Residential Electrical Installations* (NFPA, 2001 – 2011); *Pocket Guide to Commercial and Industrial Electrical Installations* (NFPA, 2001 – present); *Ugly’s Electrical References* (Jones and Bartlett Learning, 2019); *Ugly’s Electrical Safety and NFPA 70E* (Jones and Bartlett Learning, 2011); *The Electrician’s Exam Prep Manual* (Jones and Bartlett Publishers, 2007); *NFPA’s Pocket Electrical References* (Jones and Bartlett Publishers, 2007); and *NFPA’s Electrical References* (NFPA, 2004). Mr. Miller served for more than three years as a co-host of “House Calls,” a home improvement radio talk show on 1510 AM WLAC in Nashville, Tennessee.

Seminar Information

Marriott Nashville Airport

600 Marriott Drive

Nashville, TN 37214

(615) 889-9300

Tuition

\$289 for individual registration

\$269 for three or more registrants from the same company at the same time.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

Registration does not include a copy of The Code itself.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Registration

8:00 - 8:30 am

Morning Session

8:30 am - 12:30 pm

Lunch (On your own)

12:30 - 1:30 pm

Afternoon Session

1:30 - 5:00 pm

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 HSW PDHs to Tennessee architects, engineers, and interior designers. Educators and courses are not subject to preapproval in Tennessee.

This seminar is approved by the American Institute of Architects for 7.0 LU|HSW (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES course information under this seminar listing. Only full attendance is reportable to the AIA/CES.

Architects and engineers seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

The International Code Council has approved this event for .7 CEUs in the specialty area of Fire.

HalfMoon Education has applied to the Tennessee Department of Commerce and Insurance, Division of Fire Protection for course approval, which is pending.

The Tennessee Home Inspector Licensing Board has approved this course for 7.0 continuing education hours.

Additional Learning

Webinar Series

Commercial Solar Peaker Batteries

- Part I**
Wed., Feb. 5, 2020, 11:00 AM - 2:15 PM CST
- Part II**
Thurs., Feb. 6, 2020, 11:00 AM - 2:15 PM CST

Designing for Climate Resilience

- Current and Anticipated Climate Effects on Structures and Communities**
Thurs., Feb. 27, 2020, 11:00 AM - 12:30 PM CST
- Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns**
Thurs., Feb. 27, 2020, 1:00 - 3:00 PM CST
- Studying the Impact of Extreme Weather**
- Events on Structures and Communities**
Fri., Feb. 28, 2020, 11:00 AM - 12:30 PM CST
- Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events**
Fri., Feb. 28, 2020, 1:00 - 3:00 PM CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

The current status of the pending course credits can be found at www.halfmoonseminars.org or by calling 715-835-5900 ext. 1.

This seminar offers a non-credit continuing education opportunity to construction contractors. HalfMoon Education is not seeking contractor continuing education approval in any state.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Registration

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How to Register

Online:

www.halfmoonseminars.org

Phone:

715-835-5900

Fax:

715-835-6066

Code:

Mail:

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

Complete the entire form.

Attach duplicates if necessary.

Registrant Information

Name:

Company/Firm:

Address:

City:State: Zip

Occupation:

Email:

Phone:

Additional Registrants:

Name:

Occupation:

Email:

Phone:

Name:

Occupation:

Email:

Phone:

Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.

() I need special accommodations. Please contact me.

Tuition

() I will be attending the live seminar.

Single Registrant - \$289.00.

Three or more registrants from the same company registering at the same time - \$269.00 each.

Checks:

Make payable to HalfMoon Education Inc.

Credit Card:

Mastercard, Visa, American Express, or Discover

Credit Card Number:

Expiration Date: CVV2 Code:

Cardholder Name:

Billing Address:

City:State: Zip:

Signature:

Email:

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