



Analysis of the Significant Changes in the 2023 NEC

Provider Information

Provider

Mike Holt Enterprises

Instructor

Mike Holt

Email

ceonline@mikeholt.com

General Information

Course Length

16 Hours

Course Description

This course is based on the content from *Mike Holt's Illustrated Changes to the NEC 2023* textbook and video program. It provides students with a comprehensive overview of the significant changes to the NEC.

Expectations and Goals

The format of the course is designed to encourage constant interaction with the student. This course provides students with pages of text and graphics followed by a question related to that material. This provides immediate application of the content learned. This format keeps students actively engaged in their learning through the entirety of the course.

Student Interaction

Our online course provides the student with the ability to send questions about the course and content to Mike Holt and our CEU department 24 hours a day through our "Submit a Question" and "Report an Error" section. During normal business hours (8:30am to 5:00pm EST) all calls are answered by customer service and questions that are emailed to the department are always responded to and resolved within 2 hours during normal business hours. Questions that are emailed while the office is closed are addressed within 6-8 hours.

Course Materials

Required Materials

Students are required to have a computer and reliable internet connection to properly use our online courses. Our courses are optimized to perform on Firefox or Google Chrome.

Students are not required to purchase any additional training materials, such as textbooks.

Methods of Presentation

Text

The course utilizes text and full-color illustrations to help you visualize the change and safety requirements in practical use. You will review author's comments & analysis, cautions

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regarding possible conflict or confusing NEC requirements, tips on proper electrical installations, and warnings of dangers related to improper electrical installations.

Quiz Questions

Student comprehension is tested immediately with page or video level questions. They must pass these quizzes with a 75% or better to receive credit for this course.

Video

Optional course videos are provided throughout the program to help a student review the topic in depth if needed. The videos correspond with the course outline. Our videos showcase a dynamic classroom type training with Mike and his panel of experts dissecting the changes, their impact, and how they will translate and apply in the field. These videos allow for our instructors to clarify the meaning of the change and to provide an in-depth analysis of the background information.

Course Security

Affidavits

Students will be required to electronically sign the following affidavit when taking this online course:

I hereby certify that I am the person completing the following course (Name of Course) and that I will complete this course completely on my own. By entering my name below, I am ensuring I am the student who is enrolled in and completing this course

Course Timer

Our courses track all student progress and has a built-in timer. We require students to be engaged in the course for a minimum of 50 minutes per credit hour. Students will not be able to receive credit unless they have met the minimum time requirement for this course. Students can track their time remaining by viewing the course timer while they are logged into the course.

Student Computer

Students will not be allowed to be logged into multiple computers at once while completing our courses. Students will only be able to log into one computer to successfully take the course.

Inactivity Timer

Students will automatically be logged out of the course after 30 minutes of inactivity.

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Course Topics

Module	Topics	Module Details
Introduction to The NEC	Article 90—Introduction to the National Electrical Code 90.1 Scope 90.2 Use and Application 90.4 Enforcement 90.5 Mandatory Rules, Permissive Rules, and Explanatory Material, (C) Explanatory Material	Estimated Time Spent: 90 minutes Format: Text & Questions
Chapter 2- Wiring and Protection	Article 225—Outside Branch Circuits and Feeders 225.1 Scope 225.27 Raceway Seal 225.41 Emergency Disconnects 225.42 Surge Protection	Estimated Time Spent: 50 minutes Format: Text & Questions
Chapter 3- Wiring Methods and Materials	Article 310—Conductors for General Wiring 310.10 Uses Permitted Article 352—Rigid Polyvinyl Chloride Conduit (PVC) 352.10 Uses Permitted 352.44 Expansion Fittings Article 358—Electrical Metallic Tubing (EMT) 358.10 Uses Permitted	Estimated Time Spent: 90 minutes Format: Text & Questions
Chapter 4- Equipment for General Use	Article 408—Switchboards, Switchgear, and Panelboards 408.4 Circuit Directory and Descriptions of Circuit Source 408.9 Replacement Panelboards 408.43 Panelboard Orientation Article 410—Luminaires, Lampholders, and Lamps 410.10 Luminaires in Specific Locations 410.42 Luminaire(s) with Exposed Conductive Surfaces 410.71 Disconnecting Means for Fluorescent or LED Luminaires that Utilize Double-Ended Lamps 410.184 Ground-Fault Circuit-Interrupter (GFCI) Protection and Special Purpose Ground-Fault Circuit-Interrupter (SPGFCI) Protection Article 422—Appliances 422.5 GFCI Protection 422.13 Storage-Type Water Heaters 422.16 Flexible Cords 422.18 Ceiling-Suspended (Paddle) Fans 422.33 Disconnection of Cord-and-Plug-Connected or Attachment Fitting-Connected Appliances	Estimated Time Spent: 200 minutes Format: Text & Questions

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Module	Topics	Module Details
	<p>Article 440—Air-Conditioning and Refrigerating Equipment</p> <ul style="list-style-type: none"> 440.8 Single Machine and Location 440.11 General 440.14 Location 440.22 Application and Selection <p>Article 445—Generators</p> <ul style="list-style-type: none"> 445.11 Marking 445.19 Emergency Shutdown of Prime Mover 	
Chapter 5- Special Occupancies	<p>Article 500—Hazardous (Classified) Locations</p> <ul style="list-style-type: none"> 500.1 Scope 500.4 Documentation 500.5 Classifications of Locations <p>Article 555—Marinas, Boatyards, Floating Buildings, and Commercial and Noncommercial Docking Facilities</p> <ul style="list-style-type: none"> 555.4 Location of Service Equipment 555.15 Replacement of Equipment 555.30 Electrical Equipment and Connections 555.34 Wiring Methods and Installation 555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter 555.36 Shore Power Receptacle Disconnecting Means 555.37 Equipment Grounding Conductor 555.38 Luminaires 	<p>Estimated Time Spent: 150 minutes</p> <p>Format: Text & Questions</p>
Chapter 6- Special Equipment	<p>Article 620—Elevators, Dumbwaiters, Escalators, Moving Walks, Platform Lifts, and Stairway Chairlifts</p> <ul style="list-style-type: none"> 620.6 Ground-Fault Circuit-Interrupter Protection for Personnel 620.22 Branch Circuits for Car Lighting, Receptacle(s), Ventilation, Heating, and Air-Conditioning <p>Article 625—Electric Vehicle Power Transfer System</p> <ul style="list-style-type: none"> 625.6 Listed 625.40 Electric Vehicle Branch Circuit 625.43 Disconnecting Means 625.49 Island Mode <p>Article 630—Electric Welders</p> <ul style="list-style-type: none"> 630.8 Ground-Fault Circuit-interrupter Protection for Personnel 	<p>Estimated Time Spent: 60 minutes</p> <p>Format: Text & Questions</p>
Chapter 7- Special Conditions	<p>Article 700—Emergency Systems</p> <ul style="list-style-type: none"> 700.1 Scope 700.3 Tests and Maintenance 700.4 Capacity and Rating 	<p>Estimated Time Spent: 100 minutes</p> <p>Format: Text & Questions</p>

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Module	Topics	Module Details
	700.6 Signals 700.8 Surge Protection 700.11 Wiring, Class-2-Powered Emergency Lighting Systems 700.12 General Requirements 700.27 Class 2 Powered Emergency Lighting Systems Article 702—Optional Standby Systems 702.4 Capacity and Rating 702.5 Interconnection or Transfer Equipment 702.12 Portable Outdoor Generators Article 706—Energy Storage Systems 706.7 Commissioning and Maintenance 706.15 Disconnecting Means 706.31 Overcurrent Protection Article 750—Energy Management Systems 750.6 Listing 750.30 Load Management	
Chapter 8-Communications Systems	Article 800—General Requirements for Communications Systems 800.3 Other Articles 800.24 Mechanical Execution of Work 800.133 Installation of Coaxial Cables and Equipment 800.170 Plenum Cable Ties	Estimated Time Spent: 60 minutes Format: Text & Questions

Important Disclaimer

The estimated time spent is based on data collected from thousands of students completing our apprenticeship and CEU programs and additionally supported by educational organizations calculations for average for students reading technical material. Based on our data and research, we've determined students spend on average 2-6 minutes per page and question. Reference:

<https://catalog.shepherd.edu/mime/media/12/913/SU+Credit+Hour+Policy+Appendix+B.pdf>

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Mike Holt Biography

Educator

Mike has taught over 1,000 classes on over 40 different electrical related subjects to over 20,000 students. He is committed to the electrical industry and is recognized as one of America's most knowledgeable and dynamic Electrical Educators. He has touched the lives of many thousands with his dynamic and animated teaching style, which is relaxed, direct and fun. Perhaps Mike's best quality is his ability to motivate his students to become successful. Mike draws on his experience to help him develop training programs that the electrician understands and enjoys. His extensive use of illustration in all of his training programs makes learning fun. His ability to take the intimidation out of learning is reflected in the success rate of his students. His development of educational products that are interesting as well as technically correct has brought his name to become synonymous with quality education. His dedication to electrical training is the result of his own struggles as an electrician looking for a program that would help him succeed in this challenging industry.

Author

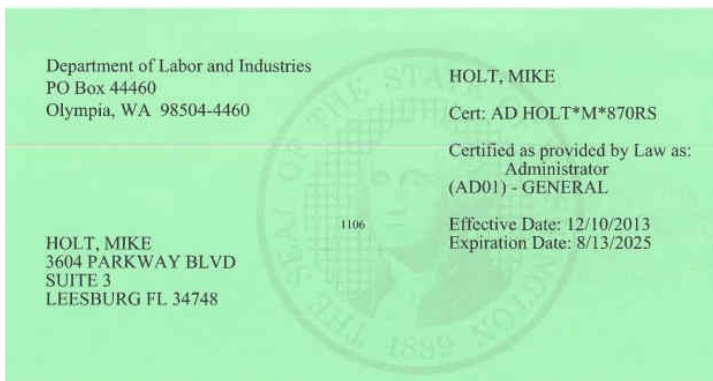
Mike Holt is a well-respected author and developer of software, books and video training programs. He has developed nearly 50 different electrical home-study training and business management programs which have been in use since 1978 by electrical apprenticeship training programs, contractors, inspectors, electricians, engineers and plant personnel. Mike has worked his way up the trade from Apprentice Electrician, Journeyman Electrician, Master Electrician, Electrical Inspector, Electrical Contractor, Electrical Designer and developer of training programs for the electrical industry. He was formerly a contributing Editor to Electrical Construction and Maintenance Magazine (EC&M) and Construction Editor to Electrical Design and Installation Magazine (EDI). His articles have been seen in CEE News, Electrical Contractor (EC) International Association of Electrical Inspectors (IAEI News), The Electrical Distributor (TED) and Power Quality Magazine (PQ).

Industry Expert

Mike has devoted his career to studying and understanding the National Electrical Code. His research and background has not only made Mike an expert, but it has earned him the respect of his peers. Mike teaches seminars throughout the United States and abroad, for individuals, organizations such as NECA, IAEI, IBEW and ICBO, and Fortune 500 companies such as IBM, Boeing, Motorola, and AT&T. He has been an active member of the International Association of Electrical Inspectors, National Board of Electrical Examiners, National Fire Protection Association, National Association of Licensing Boards, Florida Association of Electrical Contractors, and the Electrical Council of Florida. Mike Attended the University of Miami's Masters in Business Administration, MBA program.

Mike's courses are approved in over 32 states for online and home-study courses, and approved for live classes in over 18 states

Current Licenses



Washington Holt*M*870RS Exp:8/13/2025



North Carolina L.25602 Exp: 03/21/2023

CERTIFICATE OF COMPLETION

Mike Holt Enterprises hereby certifies that

Sample Student

Student State License Number

has successfully completed the

Title of Course

January 1, 2022



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A handwritten signature in black ink that reads "Mike Holt". The signature is written in a cursive, flowing style.

Charles "Mike" Holt, Sr.
Certified Instructor

Final Score:

Course Hours:

Certificate No.:

State Approval No.:

State Provider No.: