

## 2023 NEC Limited Energy Online Course

### Provider Information

**Provider**

Mike Holt Enterprises

**Instructor**

Mike Holt

**Email**

ceuonline@mikeholt.com

### General Information

#### Course Description

This course is based on the content from Mike Holt's Limited Energy and Communications Systems textbook. It provides students with a comprehensive overview of the most important technical low voltage systems, from Articles 90 through 820.

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

#### Quiz Questions

Contact Us:

[www.mikeholt.com/ceu](http://www.mikeholt.com/ceu) | 888-632-2633 | [ceuonline@mikeholt.com](mailto:ceuonline@mikeholt.com)

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.

### **Facial Recognition**

Students will be required to take a secured photo to validate their identity at the beginning of course, each time they log into the course, randomly throughout the course, and final at the end of the course. This photo will be stored on their account and it validated through the software API with each additional photo. Photo will be compared through the system to verify it is the student earning credit for the course.

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## Course Topics

Topics	Module Details
<b>Article 722—Cables for Power-Limited Circuits and Fault-Managed Power Circuits</b> 722.1 Scope 722.3 Other Articles 722.21 Electrical Equipment Behind Access Panels 722.24 Mechanical Execution of Work 722.25 Abandoned Cable 722.135 Installation of Power-Limited Cables 722.179 Listing and Marking of Power-Limited Cables	Estimated time: 25 minutes Format: Text & Questions
<b>Article 724—Class 1 Power-Limited Circuits and Class 1 Power-Limited Remote-Control and Signaling Circuits</b> 724.1 Scope 724.30 Class 1 Circuit Identification 724.40 Class 1 Power Source 724.43 Class 1 Circuit Overcurrent Protection 724.45 Class 1 Circuit Overcurrent Protective Device Location 724.46 Class 1 Circuit Wiring Methods 724.48 Conductors of Different Circuits in Same Cable, Cable Tray, Enclosure, or Raceway 724.49 Class 1 Circuit Conductors 724.51 Number of Conductors in a Raceway	Estimated Time Spent: 30 minutes Format: Text & Questions
<b>Article 725—Remote-Control, Signaling, and Power-Limited Circuits</b> 725.1 Scope 725.31 Safety-Control Equipment 725.60 Power Sources for Class 2 Circuits 725.127 Wiring Methods on Supply Side of the Class 2 Power Source 725.130 Wiring Methods on Load Side of the Class 2 Power Source 725.136 Separation from Power Conductors 725.139 Conductors of Different Circuits in Same Cable, Enclosure, Cable Tray, and Raceway 725.144 Bundling Cables Transmitting Power and Data	Estimated Time Spent: 35 minutes Format: Text & Questions
<b>Article 760—Fire Alarm Systems</b> 760.1 Scope 760.3 Other Articles 760.21 Access to Electrical Equipment Behind Panels Designed to Allow Access 760.24 Mechanical Execution of Work 760.25 Abandoned Cables	Estimated Time Spent: 45 minutes Format: Text & Questions

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Topics	Module Details
760.30 Fire Alarm Circuit Identification 760.33 Supply-Side Overvoltage Protection 760.35 Fire Alarm Circuit Requirements 760.121 Power Sources for Power-Limited Fire Alarm Equipment 760.124 Marking 760.127 Wiring Methods on Supply Side of the Power-Limited Fire Alarm Source 760.130 Load Side of the Power-Limited Fire Alarm Power Source 760.136 Separation from Power Conductors 760.143 Support of PLFA Cables	
<b>Article 770—Optical Fiber Cables</b> 770.1 Scope 770.3 Other Articles 770.21 Access to Electrical Equipment Behind Panels Designed to Allow Access 770.24 Mechanical Execution of Work 770.25 Abandoned Cable 770.26 Spread of Fire of Products of Combustion 770.133 Installation of Optical Fiber Cables and Electrical Conductors	Estimated Time Spent: 25 minutes Format: Text & Questions
<b>Article 800—General Requirements for Communications Systems</b> 800.1 Scope 800.3 Other Articles 800.21 Access to Electrical Equipment Behind Panels Designed to Allow Access 800.24 Mechanical Execution of Work 800.25 Abandoned Cable 800.26 Spread of Fire or Products of Combustion 800.53 Separation from Lighting Conductors 800.110 Raceways 800.113 Installation of Communications Wires, Cables, and Raceways 800.133 Installation of Coaxial Cables and Equipment 800.154 Applications of Listed Communications Wires, Coaxial Cables, and Raceways 800.170 Plenum Cable Ties	Estimated Time Spent: 40 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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# CERTIFICATE OF COMPLETION

Mike Holt Enterprises hereby certifies that

**Sample Student**

Student State License Number

has successfully completed the

**Title of Course (T)**

January 1, 2023



MikeHolt.com | 888.632.2633



Charles "Mike" Holt, Sr.  
Certified Instructor

Final Score:  
Course Hours:  
Certificate No:  
Course Approval No.  
State Provider No.