Provider Information

Provider	Email	Phone
Mike Holt Enterprises	ceuonline@mikeholt.com	888-632-2633

General Information

Instructors

Main Instructor: Mike Holt
Backup Instructors: Brian House, Mario Valdes

Course Description

Based on Mike Holt's *2026 Understanding Fundamental NEC Calculations* textbooks, this live seminar covers topics of electrical calculations that follow the 2026 NEC, providing a concise and complete explanation of the individual calculations that are presented. The seminar is designed to give an in-depth view of the NEC and application of commonly used calculations in real world situations.

Course Objectives

The goal of this class is to identify the significant requirements and provide explanation and analysis to help the student understand the calculations and NEC rules, their impact, and their practical application. This dynamic presentation translates the very technical language of the NEC into everyday electrician's language to ensure a safe Code-compliant system that is designed, installed, and inspected to meet the hundreds of requirements contained in the 2026 NEC.

Class Attendance Verification and Evaluation

Students' attendance is monitored with sign-in and sign-out sheets that verify actual time spent in the course. Students will also complete a course evaluation form for the course content and the instructor. Please see the accompanying packet for a sample of the Course Evaluation sheet.

a. The students' sign in form will be stamped by our check-in staff.
b. At the end of the class, the sign in forms are picked up by our staff. The students are handing them to us before they exit the class.
c. In order to receive credit for the course, the sign in form must have signed in and out and must be stamped and must match the identification verified on the order.

Students will be provided an instructor and course evaluation during the class. We will collect and review each evaluation.

Course Materials

Students will receive the entire PowerPoint Presentation as a booklet at the beginning of class. The handout will include references and space to add their own notes. Cost to students is $395. Please see the included packet for a sample of the handout

Course Topics

Time	Topics
8:00am - 8:10am	**Introduction**
8:10am - 9:00am	**Session 1: Article 90**
	Article 90—Introduction to the National Electrical Code
	90.1 Scope
	90.2 Scope and Application of the NEC *(A) Scope of NEC* *(1) Covered by the NEC* *(2) Not Covered by the NEC*
	90.3 Code Arrangement
	90.4 NEC Enforcement
	90.5 Mandatory and Permissive Rules, and Explanatory Material
	90.7 Examination of Equipment for Safety
9:00am - 10:10am *(Includes 20-minute break)*	**Session 2: Chapter 1—General Rules**
	Article 100—Definitions
	100 Scope
	Article 110—General Requirements for Electrical Installations
	Part I. General Requirements 110.1 Scope
	110.14 Electrical Connections *(C) Conductor Sized to Terminal Temperature Rating* *(1) Equipment Terminations* *(a) Circuits Rated 100A or Less* *(b) Circuits Rated over 100A* *(2) Separate Connector* *Table 310.16*
10:10am - 11:30am *(Includes 20-minute break)*	**Session 3: Chapter 2—Wiring and Protection**
	Introduction to Article 210—Branch Circuits *Definitions*
	Part I. General 210.1 Scope
	Part II. Branch-Circuit Ratings 210.19 Conductor Sizing *(A) General* *(1) Continuous and Noncontinuous Loads* *(2) Ampacity Correction and/or Adjustment Factor* *(B) Branch Circuits with More than One Receptacle*
	210.20 Overcurrent Protection *(A) Continuous and Noncontinuous Loads*
	Introduction to Article 240—Overcurrent Protection *Definitions and Review*
	Part I. General 240.1 Scope
	240.4 Overcurrent Protection of Conductors *(B) Overcurrent Protective Devices Rated 800A or Less* *(C) Overcurrent Protective Devices Rated Over 800A* *(D) Conductors 18 AWG through 10 AWG* *(F) Transformer Secondary Conductors*

	(G) Overcurrent Protection for Specific Applications *Air conditioner Circuit, Motor Circuit* *(H) Dwelling Unit Service and Feeder Conductors*
	240.6 Standard Ampere Ratings *(A) Fuses and Fixed-Trip Circuit Breakers* *Table 240.6*
11:30am – 12:00pm	**Session 4: Chapter 3—Wiring Methods and Materials Part 1**
	Article 300—General Requirements for Wiring Methods and Materials
	Part I. General Requirements 300.1 Scope *(A) Covered* *(B) Not Covered*
	300.19 Number and Size of Conductors in a Raceway *(A) Raceway Fill* *EMT, FMC, LFNC Annex C Table Examples* *Chapter 9, Table 4 and Table 5 Example*
12:00pm – 1:00pm	LUNCH
1:00pm – 2:10pm	**Session 5: Chapter 3—Wiring Methods and Materials Part 2**
	Introduction to Article 310—Conductors for General Wiring
	Part I. General 310.1 Scope
	Part II. Construction Specifications 310.4 Conductor Construction and Application
	Part III. Installation 310.15 Ampacity Tables *(A) General* *(B) Conductor Ampacity Correction* *(1) General* *(2) Raceways and Cables Exposed to Sunlight on Rooftops* *(C) Conductor Ampacity Adjustment* *(1) Four or More Current-Carrying Conductors* *Conductors within Raceways or Cables* *Conductors not within Raceways or Cables* *Cables Bundled Together* *(E) Neutral Conductor* *(1) Considered Current Carrying* *(2) Not Considered Current Carrying* *(F) Grounding and Bonding Conductor*
	310.16 Insulated Conductors *Table 310.16*
2:10pm – 3:30pm *(Includes 20-minute break)*	**Session 6: Chapter 3—Wiring Methods and Materials Part 3**
	Introduction to Article 314—Boxes, Conduit Bodies, and Handhole Enclosures
	Part I. General 314.1 Scope
	Part II. Installation 314.16 Outlet Box Sizing *(A) Box Volume* *(1) Metal Boxes* *(2) Nonmetallic Boxes* *(B) Box Fill Calculations* *(1) Conductor Volume* *(2) Cable Clamp Volume* *(3) Support Fitting Volume* *(4) Device Yoke Volume* *(5) Equipment Grounding Conductor Volume* *(C) Conduit Bodies*

	(2) Splices
	314.28 Pull and Junction Boxes *(A) Minimum Size* *(1) Straight Pulls* *(2) Angle Pulls, U Pulls, or Splices* *Distance Between Raceways*
3:30pm – 4:10pm *(Includes 10-minute break)*	**Session 7: Chapter 3—Wiring Methods and Materials Part 4**
	Introduction to Article 334—Nonmetallic-Sheathed Cable (NM Cable) *Definitions*
	Part I. General 334.1 Scope
	Part II. Installation 334.80 Conductor Ampacity *(A) General* *(B) NM Cables through Same Opening*
4:10pm - 4:50pm	**Session 8: Chapter 4—Equipment for General Use**
	Article 422—Appliances
	422.1 Scope
	422.10 Branch Circuits *(A) Individual Branch Circuit* *(B) Branch Circuits Supplying Two or More Loads*
	422.11 Overcurrent Protection *(A) Branch-Circuit Overcurrent Protection* *(E) Nonmotor Appliances*
	422.13 Storage Water Heaters
	Article 424—Fixed Electric Space-Heating Equipment
	424.1 Scope
	424.5 Continuous Load
	Article 440—Air-Conditioning and Refrigeration Equipment
	Part I. General 440.1 Scope
	440.4 Marking on Hermetic Refrigerant Motor-Compressors and Equipment *(B) Equipment Nameplate* *(1) General* *(5) Accessible Nameplate*
4:50pm - 5:00pm	**Wrap-Up and Open Questions**

Mike Holt Enterprises, Inc.
888.NEC.CODE (632.2633) www.MikeHolt.com

Course Materials

1. Course References

- **NEC Calculations: The seminar is based on and instructed from *Mike Holt's Illustrated Guide to Fundamental NEC Calculations* Book and PowerPoint Presentation.**
  - **I have included the Syllabus and Sample pages of the PowerPoints for your review**

2. All attendees will receive:

- **Booklet with Presentation slides and notes**
  - **Included in cost of seminar**

3. All attendees are required to sign in at start of seminar and sign out at completion of seminar. The attendees are required to turn the form in to the staff to receive continuing education credit

4. Course Fees: $395

Schedule of Course Dates and Locations

Date	Times	Location
May 15, 2027	8:00am – 5:00pm	Marriott Hotel, Coral Springs, Florida *11775 Heron Bay Blvd, Coral Springs, FL 33076*
June 26, 2027	8:00am – 5:00pm	Rosen Plaza Hotel, Orlando, Florida *9700 International Drive, Orlando, FL, 32819*

Class Attendance Verification

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1. ***Method of student attendance.*** Students' attendance is monitored with sign-in and sign-out sheets that verify actual time spent in the course.
    a. *The students' sign in form will be stamped by our check-in staff.*
    b. *At the end of the class, the sign in forms are picked up by our staff. The students are handing them to us before they exit the class.*
    c. *In order to receive credit for the course, the sign in form must have signed in and out and must be stamped and must match the identification verified on the order*



2. ***Student Evaluation.*** All students give feedback on courses through surveys and we are able to continue to enhance the program based on this consistent feedback. The evaluation form is shown below

NEC—Mike Holt

Rate from 1-10 (10=highest) ☐ Why?_____

Was this topic relevant for you? ☐Yes ☐No Why?_____

What was the most important thing you learned?_____

_____

What disappointed you?_____

_____

How could the presentation be improved?_____

_____

What concept was most difficult to grasp?_____

_____

What was especially good about today's session?_____

_____

Additional comments:_____

_____

_____

Overall 2-Day Seminar Evaluation

Facilities Did you attend the VIP Luncheon? ☐Yes ☐No

Lunch Day 1 **Rate 1-10** ☐ Why?_____

Lunch Day 2 **Rate 1-10** ☐ Why?_____

Did you stay at the hotel? ☐Yes ☐No **Rate the hotel 1-10** ☐ Comments:_____

_____

Overall: **Rate this event from 1-10 (10=highest)** ☐ Why:_____

_____

How can we improve?_____

_____

Final Thoughts:_____

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Can we use your feedback in our marketing? ☐Yes ☐No

Name:_____ Company:_____