

| | |
|----------------------------|---|
| Course Name | 2023 NEC Changes Part 1 |
| Credit Hours | 8 Hours |
| Course Description | This online course reviews the first 100 of the most important changes to the 2023 National Electrical Code. Changes from Section 100 through Section 406 will be covered. |
| Learning Objectives | <p>At the completion of the course, licensees will be able to:</p> <ul style="list-style-type: none">• Describe the overall layout of the National Electrical Code and the addition of new articles.• Identify the scope of what is covered and not covered in the Code.• List which chapters can supplement or modify other chapters.• Identify updates, additions, and changes to Chapter 1 of the 2023 National Electrical Code.• Describe changes in the way terms are presented in Article 100, <i>Definitions</i>.• Define 12 terms that are newly defined in the 2023 NEC.• Outline changes to the general requirements for electrical installations found in Chapter 110 of the 2023 NEC.• Identify updates, additions, and changes to Chapter 2 of the 2023 National Electrical Code.• Describe changes for branch circuits found in Chapter 2 of the 2023 NEC.• Identify changes to branch-circuit requirements as summarized in Tables 210.24(1) and 210.24(2).• Outline new requirements covering barriers and surge protection for feeders found in Chapter 2 of the 2023 NEC.• Identify changes to branch-circuit, feeder, and service load calculations found in Chapter 2 of the 2023 NEC.• List new requirements in Chapter 2 of the 2023 NEC for health care facilities, electric vehicle charging stations, marinas, and docking facilities.• Identify the changes to minimum unit load requirements for dwelling units and lighting loads for non-dwelling occupancies found in Chapter 2 of the 2023 NEC. |

- Describe changes to emergency disconnects and surge protection for outside branch circuits and feeders found in Chapter 2 of the 2023 NEC.
- Outline the new wiring method for installing underground service conductors.
- List the locations that must be provided with surge protection devices.
- Identify changes for service conductors and service installation requirements found in Chapter 2 of the 2023 NEC.
- Outline the new declaration regarding standard overcurrent device ratings found in Chapter 2 of the 2023 NEC.
- Identify changes to the standard ampere ratings in Table 240.6(A).
- Describe the new requirement that surge protection devices indicate they are functioning properly.
- Summarize the new requirements for overcurrent protection requirements for systems over 1000 volts ac, 1500 volts dc in Article 245.
- Identify the new requirements for grounding and bonding in Chapter 2 of the 2023 NEC.
- Identify updates, additions, and changes to Chapter 3 of the 2023 National Electrical Code.
- Summarize the general requirements for wiring methods and materials for systems rated over 1000 volts ac, 1500 volts dc covered in Article 305.
- Describe changes and additions to the exceptions for cables, raceways, or boxes installed in or under metal-corrugated roof decking found in Chapter 3 of the 2023 NEC.
- Outline new requirements for installing screws and other fasteners in cabinets, cutout boxes, and meter socket enclosures found in Chapter 3 of the 2023 NEC.
- Identify additions and changes to requirements for outlet boxes, underground boxes, and handhole enclosures found in Chapter 3 of the 2023 NEC.
- Outline new requirements for insulated bus pipe and flexible bus systems found in Chapter 3 of the 2023 NEC.
- List changes to uses permitted and not permitted for nonmetallic-sheathed cable.
- Identify changed requirements for use and installation of rigid polyvinyl chloride conduit (PVC) found in Chapter 3 of the 2023 NEC.

- Identify updates, additions, and changes to Chapter 4 of the 2023 National Electrical Code.
- Describe the change in scope to Chapter 4 of the 2023 NEC.
- Identify changes and additions to requirements for switches found in Chapter 4 of the 2023 NEC.

Reference Materials

NFPA 70 National Electrical Code 2023 Edition

Course Timed Syllabus

Attached

Method of Presentation

This online course presents each code section with commentary, a graphic illustration or photograph, and requires the participant to answer multiple choice questions after reviewing the content.

Schedule and Location

This course may be taken at any time at www.JadeLearning.com. The student may sign in and out of the course as many times as needed to complete the course.

Attendance Verification

This course employs an inactivity timer, which will automatically log a licensee out of the training if the system does not sense a mouse click within 30 minutes.

At the end of the course, the licensee must affirm their name, that they are the one who completed the course, and verify that their registration information is correct.

Method of Evaluation

The licensee must complete all 100 multiple choice questions with a score of at least 70% in order to get credit for the course. The course is also timed; participants will not get credit until they spend at least 400 active minutes in the course.

Online Review Access

To review this course, go to www.JadeLearning.com. Click on the orange Login button on the top right and sign into the learning system using the login information below.

Username: COEtester

Password: COEtester

Instructor(s)

Jerry Durham (resume attached)

Fee

\$85.00