

**Course Name:** 2023 NEC Code Change

**Credit Hours:** 8 Hours

**Course Description:** This course will cover many of the important changes to the 2023 National Electrical Code in a very detailed and methodical fashion. This course is written to provide the licensee with a complete overview of the 2023 NEC. As illustrated in the course outline, a systematic approach has been taken to cover changes in Articles 90 through 480 of the 2023 NEC, and to develop a 200-question assessment to accurately gauge the licensee’s comprehension of changes to the code.

**Course Objectives:** At the conclusion of this course, licensees will be able to:

1. Recognize and identify changes to the 2023 NEC.
2. Apply changes to the 2023 NEC in their daily electrical practice.

**Method of Presentation:** This course is available online. Each slide include commentary and a multiple choice question. The student will be required to set up a unique username and password upon registration, and will also be asked to enter their state license number.

**Method of Evaluation:** The licensee must complete all 200 multiple choice questions with a score of 75% or better in order to receive credit for the course.

**Course Outline: 480 Minutes (8 hours)**

**ARTICLE 90: 8 minutes**

(NEW) 90.1 Scope.

(NEW) 90.4 (A) Application.

(NEW) 90.4 (B) Interpretations.

(NEW) 90.4 (C) Specific Requirements and Alternative Methods.

(NEW) 90.4 (D) New Products, Constructions, or Materials.

Informational Note:

**ARTICLE 100: 18 minutes**

(New) Scope.

(Change) Accessible (as applied to wiring methods).

(NEW) Adapter.

(CHANGE) Aircraft Painting Hangar.

(NEW) Alternate Power Source.

(NEW) Ambulatory Health Care Occupancy.

(NEW) Amplifier (Audio Amplifier) (Pre-Amplifier).

(CHANGE) Appliance.

(NEW) Applicator.

(NEW) Array.

(CHANGE) Associated Apparatus.

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

**ARTICLE 110 : 66 minutes**

(CHANGE) 110.3 Examination, Identification, Installation, Use, and Listing (Product Certification) of Equipment. (A) Examination.

(CHANGE) 110.3 (B) Installation and Use.

Informational Note:

(CHANGE) 110.4 Voltages.

(CHANGE) 110.6 Conductor Sizes.

(CHANGE) 110.8 Wiring Methods.

(CHANGE) 110.12 Mechanical Execution of Work.

(CHANGE) 110.12 (C) Cables and Conductors.

Informational Note No. 1:

Informational Note No. 2:

(CHANGE) 110.14 Electrical Connections.

(CHANGE) 110.14 (D) Terminal Connection Torque.

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

(CHANGE) 110.16 (B) Service Equipment and Feeder Supplied Equipment.

Informational Note No. 1:

Informational Note No. 2:

(NEW) 110.17 Servicing and Maintenance of Equipment.

Informational Note No. 1:

Informational Note No. 2:

(NEW) 110.20 Reconditioned Equipment.

(NEW) 110.20 (A) Equipment Required to Be Listed.

(NEW) 110.20 (B) Equipment Not Required to Be Listed.

(NEW) 110.20 (C) Approved Equipment.

(CHANGE) 110.21(2) Reconditioned Equipment.

Exception:

Informational Note No. 1:

Informational Note No. 2:

(CHANGE) 110.21 (B) Field-Applied Hazard Markings.

Informational Note No. 1:

Informational Note No. 2:

Exception to (2):

(CHANGE) 110.26 Spaces About Electrical Equipment.

(NEW) 110.26 (A)(6) Grade, Floor, or Working Platform.

(CHANGE) 110.26 (C) (3) Personnel Doors.

Informational Note:

(NEW) 110.29 In Sight From (Within Sight From, Within Sight).

(CHANGE) 110.33 (A) Entrance.

(CHANGE) 110.40 Temperature Limitations at Terminations.

(CHANGE) 110.53 Conductors.

(CHANGE) 110.58 Disconnecting Means.

(CHANGE) 110.72 Cabling Work Space.

(CHANGE) 110.75(A) Dimensions.

**ARTICLE 200: 15 minutes**

(CHANGE) 200.2 General. Grounded conductors shall comply with 200.2(A) and (B).

(A) Insulation.

(CHANGE) 200.2 (B) Continuity.

Informational Note:

(CHANGE) 200.6 Means of Identifying Grounded Conductors. (A) Sizes 6 AWG or Smaller.

(CHANGE) 200.10 Identification of Terminals. (A) Device Terminals.

Exception:

(CHANGE) 200.10 Identification of Terminals. (B) Receptacles, Plugs, and Connectors.

Informational Note:

**ARTICLE 210: 70 minutes**

(CHANGE) 210.1 Scope.

(CHANGE) 210.2 Reconditioned Equipment.

(CHANGE) 210.4 Multiwire Branch Circuits. (A) General.

Informational Note No. 1:

Informational Note No. 2:

(CHANGE) 210.4 Multiwire Branch Circuits. (C) Line-to-Neutral Loads. Multiwire branch circuits shall supply only line-to-neutral loads.

Exception No. 1:

Exception No. 2:

(CHANGE) 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel.

Informational Note:

(CHANGE) 210.8 (A) Dwelling Units.

Exception No. 1:

Exception No. 2:

Exception No. 3:

Exception No. 4:

Informational Note:

(CHANGE) 210.8 (B) Other Than Dwelling Units.

Exception No. 1:

Exception No. 2:

Exception No. 3:

Exception No. 4:

Exception No. 5:

Exception No. 6:

(CHANGE) 210.8 (D) Specific Appliances.

(CHANGE) 210.8 (F) Outdoor Outlets.

Exception No. 1:

Exception No. 2:

(CHANGE) 210.11 (C) (4) Garage Branch Circuits.

Exception No. 1:

Exception No. 2:

(CHANGE) 210.12 Arc-Fault Circuit-Interrupter Protection.

(NEW) 210.12 (B) Dwelling Units.

Exception No. 1:

Exception No. 2:

Informational Note No. 1:

Informational Note No. 2:

(CHANGE) 210.12 (C) Dormitory Units.

(CHANGE) 210.12 (D) Other Occupancies.

(CHANGE) 210.12 (E) Branch Circuit Wiring Extensions, Modifications, or Replacements.

Exception:

(CHANGE) 210.17 Guest Rooms and Guest Suites.

Informational Note No. 1:

Informational Note No. 2:

210.19 Conductors — Minimum Ampacity and Size.

(CHANGE) 210.20 Overcurrent Protection.

(NEW) 210.23 (A) 10-Ampere Branch Circuits.

(NEW) 210.23 (A) (1) Loads Permitted for 10-Ampere Branch Circuits.

(NEW) 210.23 (A) (2) Loads Not Permitted for 10-Ampere Branch Circuits.

(CHANGE) 210.52 (C) (3) Receptacle Outlet Location.

Informational Note No. 1:

Informational Note No. 2:

(CHANGE) 210.52 (G) Basements, Garages, and Accessory Buildings.

(CHANGE) 210.62 Show Windows.

**ARTICLE 215: 22 Minutes**

(CHANGE) 215.1 Scope.

Informational Note:

(CHANGE) 215.2 Minimum Rating and Size. (A) General.

(NEW) 215.2 (A) (1) Continuous and Noncontinuous Loads.

Exception No. 1:

Exception No. 2:

Exception No. 3:

(NEW) 215.2 (A) (2) Ampacity Adjustment or Correction Factors.

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

(NEW) 215.15 Barriers.

(NEW) 215.18 Surge Protection. (A) Surge-Protective Device.

(NEW) 215.18 Surge Protection. (B) Location.

Informational Note:

(NEW) 215.18 (C) Type.

(NEW) 215.18 (D) Replacement.

(NEW) 215.18 (E) Ratings.

**ARTICLE 220: 30 Minutes**

(CHANGE) 220.1 Scope.

Informational Note No. 1:

Informational Note No. 2:

(NEW) 220.5 (C) Floor Area.

(CHANGE) 220.10 General.

(NEW) 220.11 Maximum Load.

(NEW) 220.11 (A) Motor-Operated and Combination Loads.

(NEW) 220.11 (B) Inductive and LED Lighting Loads.

(NEW) 220.11 (C) Electric Cooking Appliances.

(NEW) 220.14 (J) Receptacle Outlets in Office Buildings.

(CHANGE) 220.40 General.

Informational Note No. 1:

(CHANGE) 220.41 Dwelling Units, Minimum Unit Load.

(NEW) 220.50(B) Air-Conditioning Equipment.

(NEW) 220.57 Electric Vehicle Supply Equipment (EVSE) Load.

(NEW) 220.61 (B) (1) Household Electric Ranges, Wall-Mounted Ovens, Counter-Mounted Cooking Units, and Dryers.

(NEW) 220.61 (B) (2) Unbalanced Load in Excess of 200 Amperes.

Informational Note:

(NEW) 220.70 Energy Management Systems (EMSs).

(NEW) 220.110 Receptacle Loads.

Informational Note No. 1:

Informational Note No. 2:

(NEW) 220.120 Receptacle Loads.

**ARTICLE 225: 17 Minutes**

(NEW) 225.1 Scope.

Informational Note:

(CHANGE) 225.6 Conductor Size and Support. (A) Overhead Spans.

(CHANGE) 225.27 Raceway Seal.

(NEW) 225.41 Emergency Disconnects.

(NEW) 225.41 (B) Identification of Other Isolation Disconnects.

Informational Note:

(NEW) 225.41 (C) Marking.

(NEW) 225.42 Surge Protection. (A) Surge-Protective Device.

(NEW) 225.42 (B) Location.

Informational Note:

(NEW) 225.42 (C) Type. The SPD shall be a Type 1 or Type 2 SPD.

(NEW) 225.42 (D) Replacement.

(NEW) 225.42 (E) Ratings.

**ARTICLE 230: 34 minutes**

(CHANGE) 230.1 Scope.

(CHANGE) 230.7 Other Conductors.

Exception No. 1:

Exception No. 2:

(CHANGE) 230.23 Size and Ampacity(A) General.

(CHANGE) 230.31 Size and Ampacity. (A) General.

(NEW) 230.42 Minimum Size and Ampacity (A)(1) Continuous and Noncontinuous Loads.

Exception No. 1:

Exception No. 2:

(NEW) 230.42 Minimum Size and Ampacity (A)(2) Application of Adjustment or Correction Factors.

(CHANGE) 230.67 Surge Protection. (A) Surge-Protective Device.

Informational Note:

(CHANGE) 230.71 Maximum Number of Disconnects. (B) Two to Six Service Disconnecting Means.

Exception to (2), (3), (4), (5), and (6):

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

(CHANGE) 230.85 Emergency Disconnects.

(NEW) 230.85 (A)(1) Location.

(NEW) 230.85 (B) Disconnects.

Informational Note 1:

Informational Note 2:

(NEW) 230.85 (C) Replacement.

(NEW) 230.85 (D) Identification of Other Isolation Disconnects.

(NEW) 230.85 (E) (1) Marking Text.

(NEW) 230.85 (E)(2) Marking Location and Size.

**ARTICLE 240: 25 minutes**

(CHANGE) 240.1 Scope.

Informational Note No. 1:

Informational Note No. 2:

(NEW) 240.2 Reconditioned Equipment. (A) Reconditioning Not Permitted.

(NEW) 240.2(B) Reconditioning Permitted.

(NEW) 240.4(D)(3).

(NEW) 240.4 (H) Dwelling Unit Service and Feeder Conductors.

(NEW) 240.6 (D) Remotely Accessible Adjustable-Trip Circuit Breakers.

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

(NEW) 240.7 Listing Requirements.

(NEW) 240.11 Selective Coordination.

(NEW) 240.16 Interrupting Ratings.

(CHANGE) 240.21 Location in Circuit. (C) Transformer Secondary Conductors.

Informational Note:

(CHANGE) 240.24 (A) Accessibility.

Exception:

(NEW) 240.89 Replacement Trip Units.

**ARTICLE 242: 8 Minutes**

(NEW) 242.2 Reconditioned Equipment.

(NEW) 242.9 Indicating.

(CHANGE) 242.28 Conductor Size.

(CHANGE) 242.42 Surge Arrester Rating.

Informational Note No. 1:

Informational Note No. 2:

ARTICLE 245

(NEW) 245.1 Scope. T

(NEW) 245.2(A) Reconditioned Equipment Permitted.

(NEW) 245.2 (B) Reconditioned Equipment Not Permitted.

**ARTICLE 250: 10 Minutes**

(NEW) 250.24(B) Load-Side Grounding Connections.

(NEW) 250.64 (G) Enclosures with Ventilation Openings.

(NEW) 250.70 (A) General.

(NEW) 250.70 (B) Indoor Communications Systems.

(NEW) 250.119 (A) General.

Exception No. 1:

Exception No. 2:

Exception No. 3:

**ARTICLE 300: 5 minutes**

(CHANGE) 300.9 Raceways in Wet Locations Above Grade.

(CHANGE) 300.15 (L) Manholes and Handhole Enclosures.

(CHANGE) 300.22 Wiring in Ducts Not Used for Air Handling, Fabricated Ducts for Environmental Air, and Other Spaces for Environmental Air (Plenums).

(NEW) 300.26 Remote-Control and Signaling Circuits Classification.

**ARTICLE 305: 4 Minutes**

(NEW) 305.1 Scope.

(CHANGE) 305.5 Conductor Bending Radius.

(CHANGE) 305.15 (F) Raceway Seal.

**ARTICLE 310: 8 Minutes**

310.3 (B) Conductor Material.

(CHANGE) 310.8 (B) (2) Marker Tape.

Exception No. 1:

Exception No. 2:

Exception No. 3:

Exception No. 4:

**ARTICLE 312: 5 Minutes**

(CHANGE) 312.2 Damp or Wet Locations.

(NEW) 312.10 Screws or Other Fasteners.

(NEW) 312.102 Doors or Covers.

**ARTICLE 314: 3 Minutes**

(NEW) 314.16 (B) (6) Terminal Block Fill.

(NEW) 314.24(C) Clearances for Side-Wiring Entrances.

**ARTICLE 315: 8 Minutes**

(CHANGE) 315.1 Scope.

(CHANGE) 315.6 Listing Requirements.

(New) 315.17 Marking for Type MV Cable Joints and Terminations. (A) Required Information for Type MV Cable Joints, Terminations, and Connectors.

(NEW) 315.17 (B) Method of Marking for Type MV Cable Joints, Terminations, and Connectors.

**ARTICLE 320: 2 Minutes**

(CHANGE) 320.23 In Accessible Attics.

**ARTICLE 322: 2 Minutes**

(CHANGE) 322.56(B) Taps.

**ARTICLE 330: 5 Minutes**

(CHANGE) 330.30 (B) Securing.

(CHANGE) 330.30 (C) Supporting.

**ARTICLE 334: 5 Minutes**

(CHANGE) 334.15 (B) Protection from Physical Damage.

(CHANGE) 334.15 (C) In Unfinished Basements and Crawl Spaces.

(NEW) 334.19 Cable Entries.

**ARTICLE 335: 9 Minutes**

(NEW) 335.1 Scope.

(NEW) 335.4 Uses Permitted.

(NEW) 335.5 Uses Not Permitted.

Exception No. 1:

Exception No. 2:

(NEW) 335.8 Ampacity.

(NEW) 335.9 Overcurrent Protection.

**ARTICLE 342: 3 Minutes**

(NEW) 342.24 Bends. (A) How Made.

(NEW) 342.24 (B) Number in One Run.

**ARTICLE 348: 8 minutes**

(NEW) 348.2 Reconditioned Equipment.

(NEW) 348.60 Grounding and Bonding(A) Fixed Installation.

(NEW) 348.60 (B) Flexible Installation.

(NEW) 348.60(C) Equipment Grounding Conductors.

(NEW) 348.60(D) Equipment Bonding Jumpers.

**ARTICLE 350: 8 Minutes**

(NEW) 350.2 Reconditioned Equipment.

(NEW) 350.60 Grounding and Bonding. (A) Fixed Installation.

(NEW) 350.60 (B) Flexible Installation.

(NEW) 350.60 (C) Equipment Grounding Conductor.

(NEW) 350.60 (D) Equipment Bonding Jumpers.

Informational Note:

**ARTICLE 352: 8 Minutes**

(NEW) 352.10(B) Encased in Concrete.

(NEW) 352.10(K) Physical Damage.

Informational Note:

(NEW) 352.44(B) Earth Movement.

Informational Note:

**ARTICLE 354: 2 Minute**

(NEW) 354.24(B) Number in One Run.

**ARTICLE 362: 2 Minute**

(NEW) 362.2

**ARTICLE 366: 2 Minute**

(NEW) 366.10 (C) Extended Distance of Auxiliary Gutters.

Exception:

**ARTICLE 370: 4 Minutes**

(NEW) 370.120 Marking. (A) Nameplates.

(NEW) 370.120 (B) Identification.

**ARTICLE 371: 9 Minutes**

(NEW) 371.1 Scope.

(NEW) 371.10 Uses Permitted.

(NEW) 371.12 Uses Not Permitted.

(NEW) 371.17 (C) Rating of Overcurrent Protection — Branch Circuits.

(NEW) 371.17 (F) Flexible Bus Systems from Battery Terminals.

(NEW) 371.30 Securing and Supporting.

**ARTICLE 400: 6 Minutes**

(NEW) 400.45 Shielding.

(NEW) 400.46 Equipment Grounding Conductors.

(NEW) 400.47 Minimum Bending Radii.

(NEW) 400.50 Types.

**ARTICLE 404: 2 Minute**

(NEW) 404.14 (D) Snap Switch Terminations.

**ARTICLE 406: 6 Minutes**

(NEW) 406.2 Reconditioned Equipment.

(NEW) 406.3 (D) Receptacle Terminations.

(NEW) 406.4 (G) Protection of Floor Receptacles.

**ARTICLE 409: 2 Minute**

(NEW) 409.60 Bonding.

(NEW) 409.70 Surge Protection.

**ARTICLE 410: 6 Minutes**

(NEW) 410.71 Disconnecting Means for Fluorescent or LED Luminaires that Utilize Double-Ended Lamps (1) General.

(NEW) 410.71(2) Multiwire Branch Circuits.

(NEW) 410.71(3) Location.

**ARTICLE 411: 2 Minute**

(NEW) 411.3 Voltage Limitations.

Informational Note:

**ARTICLE 422: 2 Minute**

(NEW) 422.18 (B) Location.

**ARTICLE 424: 3 Minutes**

(NEW) 424.4 (B) Branch-Circuit Conductor Sizing.

(NEW) 424.48 Installation of Cables in Walls.

**ARTICLE 430: 12 Minutes**

(NEW) 430.2 Reconditioned Motors.

Informational Note:

(NEW) 430.31 (A) Where Hazard Exists.

Informational Note:

(NEW) 430.31 (B) Not Over 1000 Volts.

Informational Note:

(NEW) 430.53 (C) (5) Overcurrent Protection.

Informational Note:

**ARTICLE 445: 3 Minutes**

(NEW) 445.19 Emergency Shutdown of Prime Mover. (A) General.

(NEW) 445.19 (B) Remote Emergency Shutdown.

**ARTICLE 460: 3 Minutes**

(NEW) 460.1 Scope.

(CHANGE) 460.24 Switching. (A) Load Current.

**ARTICLE 470: 2 Minute**

(NEW) 470.2 Reconditioned Equipment.

**ARTICLE 480: 6 Minutes**

(CHANGE) 480.1 Scope.

(CHANGE) 480.7 DC Disconnect Methods. (A) Disconnecting Means.

(CHANGE) 480.10 (C) Spaces About Stationary Standby Batteries.