

Course Name: 2023 Code Change III

Course Description: Code Changes to the 2023 NEC

This course provides a comprehensive overview of the recent updates to the National Electrical Code (NEC), focusing on key revisions and additions from various articles. Participants will gain a thorough understanding of the revised regulations and their practical applications in various electrical installations. Through detailed discussions, examples, and case studies, participants will develop the knowledge and skills necessary to navigate the updated NEC and ensure compliance with electrical safety standards.

Course Objectives:

By the end of this course, participants will be able to:

1. 90.4 - Enforcement: Describes the enforcement of the National Electrical Code.
2. 100 - Closet Storage Space: Defines closed closet storage space in the context of Article 410.
3. 100 - Energy Management System: Defines what an energy management system is.
4. 100 - Corrosive Environment: Specifies the meaning of a corrosive environment.
5. 100 - Ground Fault: Defines what constitutes a ground fault.
6. 100 - Likely to Become Energized: Explains the phrase "likely to become energized".
7. 100 - Power-supply Cord: Offers a definition for a power-supply cord.
8. 100 - Short Circuit: Provides the definition for a short circuit.
9. 110.3(B) - Installation and Use: Lays out rules for the installation and use of electrical equipment.
10. 110.14(A) - Electrical Connections (Terminals): Details how electrical connections should be made at terminals.
11. 110.21(A)(1) - Equipment Markings (General): Describes general requirements for equipment markings.
12. 110.21(B)(1) - Markings – Field Applied Hazard Marking: Outlines specifications for field-applied hazard markings.
13. 210.1 - Scope: Defines the scope of the chapter or section it heads.
14. 210.8 - Ground-Fault Circuit-Interrupter Protection for Personnel: Discusses the need for ground-fault circuit-interrupter protection for personnel.
15. 210.8(B)(7) - GFCI Protection for Personnel (Sinks): Specifies the requirements for GFCI protection near sinks.
16. 210.12(B) - Dwelling Units: Discusses specific regulations for dwelling units.
17. 210.11(C)(4) - Garage Branch Circuit and Exception #2: Details the regulations for garage branch circuits and the second exception.
18. 210.52(C) - Island and Peninsular Countertops, and Work Services: Discusses regulations for electrical installations on island and peninsular countertops, and work surfaces.

19. 250.50, 250.52(A)(3)(1), 250.52(B)(2) - Discusses the use of rebar in place of reinforcing steel or rods.
20. 250.68 - Grounding Electrode Conductor and Bonding Jumper Connection to Grounding Electrodes: Describes the specifications for grounding electrode conductor and bonding jumper connections to grounding electrodes.
21. 250.118 - Types of Equipment, Grounding, Conductors: Details the types of equipment and grounding conductors.
22. 300.10 - Electrical Continuity of Metal Raceways, Cable Armor, and Enclosures: Covers the need for electrical continuity of metal raceways, cable armor, and enclosures.
23. 300.25 - Exit Enclosures (Stair Towers): Discusses the regulations for exit enclosures or stair towers.
24. Article 305 - Discusses general requirements for wiring methods and materials for systems rated over 1000 V, AC, 1500 V DC, nominal.
25. 314.5 - Screws or Other Fasteners: Details the use of screws or other fasteners in electrical installations.
26. 314.17 - Conductors and Cables, Entering Boxes, Conduit, Bodies, or Fittings: Describes regulations for conductors and cables entering boxes, conduit, bodies, or fittings.
27. 314.29 - Boxes, Conduit Bodies, and Handhole Enclosures
28. 330.10 - Uses Permitted List Item 11: Details one specific permissible use within the larger context of the article.
29. 334.15(B) - Exposed Work (Protection from Physical Damage): Discusses how to protect exposed work from physical damage.
30. 342.20(B) - Intermediate Metal Conduit: Provides specifications for the installation of intermediate metal conduit.
31. 358.10 - Uses Permitted: Lists the conditions under which certain methods or materials can be used.
32. Article 369 - Insulated Bus Pipe (IBP)/Tubular Covered Conductors (TCC) Systems: Covers the guidelines and regulations for IBP/TCC systems.
33. 371.14 - Installation Design: Details requirements for the design of installations.
34. 406.3(A) - Receptacles Ratings and Types: Defines ratings and types for receptacles.
35. 406.9 - Receptacles in Damp and Wet Locations: Describes the rules for the use of receptacles in damp and wet locations.
36. 408.43 - Panel Board Orientation: Discusses the orientation of panel boards.
37. 410.44 - Connection to the Equipment Grounding Conductor: Provides guidelines for connecting to the equipment grounding conductor.
38. Article 410, Part XVII: This portion of the code deals with a specific subset of electrical guidelines.
39. 430.2 - Reconditioned Motors: Covers the specifications for reconditioned motors.
40. 440.8 - Single Machine and Location: Details guidelines for the installation of a single machine in a given location.
41. 500.8 - Equipment: Outlines specifications for equipment.
42. 512.32 - Marking: Explains the marking requirements for specific equipment or installations.

43. 517.22 - Demand Factors (Healthcare Facilities): Provides the demand factors that apply to healthcare facilities.
44. 551.77(D) - Mounting Height: Details specifications for the mounting height of certain equipment.
45. 555.36(C) - Emergency Electrical Disconnect: Covers the requirements for emergency electrical disconnects.
46. 625.6 - Listed (Electric Vehicle Power Transfer): Discusses the listing requirements for electric vehicle power transfer systems.
47. 625.49 - Island Mode (Electric Vehicles): Defines the "island mode" in the context of electric vehicle charging systems.
48. 680.9(A) - Power (Swimming Pools): Provides the power requirements for swimming pools.
49. 680.12 - Equipment Rooms, Vaults, and Pits: Details guidelines for electrical equipment in vaults and pits associated with swimming pools.
50. 810.3 - Other Articles: Refers to other articles that may be relevant to a specific chapter or section of the code.