Title: 2023 NEC 24-Hour Code Related

Credit Hours: 24

12 hours of Code change; 4 hours of Grounding and Bonding; 4 Hours of Residential; 4 Hours of NFPA 70E

Course Description:

This comprehensive 24-hour course is specifically designed to equip electricians, electrical contractors, and other industry professionals with an in-depth understanding of the latest updates in the 2023 National Electrical Code (NEC), with a particular focus on Grounding and Bonding, Residential, and NFPA 70E.

Throughout the course, participants will engage in a comprehensive exploration of the significant changes, revisions, and additions introduced in the 2023 NEC. Utilizing a variety of engaging learning materials such as videos, illustrations, content, and practical examples, participants will develop a solid comprehension of the updated code requirements and gain the necessary knowledge to apply them in their electrical installations effectively.

The course will encompass a wide range of topics related to the 2023 NEC update, including, but not limited to:

General Overview of the 2023 NEC.

Key revisions and changes in the code.

New and updated definitions.

Updates concerning branch circuits and feeders.

Requirements for grounding and bonding systems.

Enhanced safety provisions for electrical installations.

Changes in equipment and wiring standards.

Updates in residential, commercial, and industrial applications.

In addition, the course will allocate dedicated time specifically to Grounding and Bonding (4 hours) and Residential applications related to the 2023 NEC (4 hours). Furthermore, participants will benefit from 4 hours of focused material on NFPA 70E, which will cover fundamental aspects of grounding and bonding systems, emphasizing their critical role in electrical installations. Participants will gain an understanding of the specific changes and requirements introduced in the latest edition of the NEC. Moreover, they will explore the application of the 2023 NEC in residential installations and familiarize themselves with electrical safety standards outlined in NFPA 70E.

By the end of this course, participants will possess the necessary expertise to navigate the intricacies of the 2023 NEC, particularly in relation to grounding and bonding systems, residential installations, and electrical safety standards, thereby enhancing their professional capabilities and ensuring compliance with the latest industry regulations.

**Code Update 2023**

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.
51. 90.1 - Scope: The scope of the National Electrical Code, its purpose, and organization.
52. 90.2 - Use and Application: Understanding the appropriate use and application of the NEC code.
53. 100 - Scope (Code-wide changes): An overview of the code-wide changes made in the NEC code, with a focus on the removal of xx.2 section.
54. 100 - Accessible (Applied to Wiring Methods): The requirements for accessible wiring methods, including the identification of equipment, clearance requirements, and protection of conductors.
55. 100 - Bonding Jumper, Main: Knowledge of the main bonding jumper and its significance.
56. 100 - Commissioning: The commissioning process for electrical equipment, including the requirements for testing, inspection, and documentation.
57. 100 - Counter: Understanding the application and requirements for countertop installations.
58. 100 - Energized, Likely to Become: Identifying electrical components that are likely to become energized.
59. 100 - In Sight From: The requirements for electrical equipment to be in sight from the operating location, including the definition of "within sight."
60. 100 - Premises Wiring (System): Knowledge of premises wiring systems and their regulations.
61. 100 - Servicing: The requirements for servicing electrical equipment, including the identification of equipment, clearance requirements, and protection of conductors.
62. 100 - Service-Entrance Conductors: Understanding the requirements for service-entrance conductors.
63. 100 - Stand-Alone System: Comprehending the concept and application of stand-alone systems.
64. 110.8 - Wiring Methods: Understanding the proper wiring methods according to NEC guidelines.
65. 110.12 - Mechanical Execution of Work: The requirements for the proper installation and mechanical execution of electrical work.
66. 110.16(B) - Service Equipment and Feeder Supplied Equipment: Knowledge of regulations for service equipment and feeder supplied equipment.
67. 110.17 - Servicing and Maintenance of Equipment: The requirements for the servicing and maintenance of electrical equipment.
68. 110.20 - Reconditioned Equipment: The requirements for the use of reconditioned electrical equipment.
69. 110.21(A)(2) - Markings - Reconditioned Equipment: Comprehending the marking requirements for reconditioned equipment.
70. 110.22(A) - Identification of Disconnecting Means (General): Understanding the importance of identifying disconnecting means.
71. 110.26 - Space About Electrical Equipment: The requirements for the space around electrical equipment to ensure proper access and safety.
72. 110.29 - Insight From (Within Sight From, Within Sight): The requirements for electrical equipment to be within sight from the operating location.
73. 200.6 - Means of Identifying Grounded Conductors: The requirements for identifying grounded conductors.
74. 210.2 - Reconditioned Equipment: Knowledge of the regulations and considerations for reconditioned equipment in electrical installations.
75. 210.4 - Multiwire Branch Circuits: The requirements for the installation of multiwire branch circuits.
76. 210.8 (A)Ex. No.4 dwelling unit bathroom, Ex. No. 4 exhaust fan receptacles.
77. 210.8(A)(7) - Dwelling Unit (Areas with Sinks): The requirements for the installation of outlets in areas with sinks in dwelling units.
78. 210.8(D) Specific Appliances
79. 210.8(F) - Outdoor Outlets (for Dwelling Units): The requirements for the installation of outdoor outlets in dwelling units.
80. 210.12(C) - Arc-Fault Circuit Interrupter Protection (Dormitory Units): Understanding the requirements for arc-fault circuit interrupter protection in dormitory units.
81. 210.17 - Guest Rooms and Guest Suites: The requirements for the installation of electrical outlets in guest rooms and guest suites.
82. 210.19 - Conductors-Minimum Ampacity and Size: The requirements for the minimum ampacity and size of conductors.
83. 210.23(A) - 10-Ampere Branch Circuits: Comprehending the regulations for 10-ampere branch circuits.
84. 215.15 - Barriers (Feeders): Knowledge of barrier requirements in feeders.
85. 215.18 - Surge Protection: The requirements for surge protection in electrical systems.
86. 220.5(C) - Floor Areas: Understanding the regulations for floor areas in electrical installations.
87. 220.57 - Electric Vehicle Supply Equipment (EVSE) Load: The requirements for the load calculations of electric vehicle supply equipment.
88. 220.60 - Non-coincidental Loads: Comprehending the considerations for non-coincidental loads.
89. 225.27 - Raceway Seal: The requirements for sealing raceways to prevent moisture ingress.
90. 225.41 - Emergency Disconnects: Knowledge of the requirements for emergency disconnects.
91. 225.42 - Surge Protection: Understanding the regulations and considerations for surge protection.
92. 230.67(A) - Surge-Protective Devices: Comprehending the requirements for surge-protective devices.
93. 230.71(B) - Two to Six Service Disconnecting Means: The requirements for service disconnecting means in electrical systems.
94. Article 235 - Branch Circuits, Feeders, and Services over 1000 V AC, 1500 V DC, Nominal: Understanding the regulations for higher voltage systems.
95. 240.6(A) - Fuses and Fixed-Trip Circuit Breakers: The requirements for the installation of fuses and fixed-trip circuit breakers.
96. 240.7 - Listing Requirements: The listing requirements for electrical equipment.
97. 240.16 - Interrupting Ratings: Knowledge of interrupting ratings for overcurrent protective devices.
98. 240.24(E) - Not Located in Bathrooms: Understanding the regulations for overcurrent protective devices not located in bathrooms.
99. 242.9 - Indicating: The requirements for indicating electrical equipment.
100. 250.64(G) - Enclosures with Ventilation Openings: The requirements for enclosures with ventilation openings.
101. 250.102(C)(2) - Size for Parallel Conductor Installations in Two or More Raceways or Cables.
102. 250.130 - Equipment Grounding Conductor Connections: Comprehending the requirements for equipment grounding conductor connections.
103. 250.148 - Continuity of Equipment Grounding Conductors and Attachment in Boxes: The requirements for ensuring continuity of equipment grounding conductors and attachment in boxes.
104. 300.11(C) - Raceways Used as a Means of Support: Understanding the use of raceways as a support mechanism.
105. 300.12 - Mechanical Continuity: Comprehending the requirements for mechanical continuity in electrical installations.
106. 300.14 - Length of Free Conductors at Outlets, Junctions, and Switch Points: Knowledge of the regulations for the length of free conductors at various points.
107. 312.10 - Screws or Other Fasteners: The requirements for the use of screws or other fasteners in electrical installations.
108. 314.17(A) - Openings to Be Closed: The requirements for closing openings in electrical installations.
109. 314.25 - Covers and Canopies: Understanding the requirements for covers and canopies in electrical installations.
110. 314.25(A) - Nonmetallic or Metal Covers and Plates: Comprehending the requirements for nonmetallic or metal covers and plates.
111. 320.23(A) - Cables Run Across the Top of Framing Members: The requirements for cable installations across framing members.
112. 314.7(B)(2) - Cables Entering Through Cable Clamps: The requirements for cables entering through cable clamps.
113. 314.24 - Dimensions of Boxes: The requirements for the dimensions of boxes in electrical installations.
114. 334.10 - Uses Permitted: The permitted uses for nonmetallic-sheathed cable in electrical installations.
115. 334.19 - Cable Entries: Understanding the regulations for cable entries in nonmetallic-sheathed cable installations.
116. 344.28 - Reaming and Threading: Comprehending the requirements for reaming and threading conduits.
117. 334.40 - Boxes and Fittings: The requirements for boxes and fittings in nonmetallic-sheathed cable installations.
118. 356.10 - Uses Permitted: The permitted uses for liquidtight flexible metal conduit in electrical installations.
119. 358.20(B) - The Maximum Size of EMT: The maximum size of electrical metallic tubing that can be used in electrical installations.
120. Article 371 - Flexible Bus Systems: Understanding the requirements for flexible bus systems.
121. Article 369 - Insulated Bus Pipes/Tubular Covered Conductors: The requirements for insulated bus pipes and tubular covered conductors.
122. 404.1 - Scope: Understanding the scope and coverage of electrical systems as per NEC guidelines.
123. 404.14(F) - Dimmer and Electronic Control Switches: The requirements for dimmer and electronic control switches.
124. 404.16 - Reconditioned Equipment: The requirements for the use of reconditioned equipment in electrical installations.
125. 406.3(C) - Receptacle Rating and Type - Receptacles: Comprehending the regulations for receptacle ratings and types.
126. 406.4(D)(3) - Ground-Fault Circuit-Interrupter Protection: The requirements for ground-fault circuit-interrupter protection in specific locations.
127. 406.12 - Tamper-Resistant Receptacles: The requirements for tamper-resistant receptacles in electrical installations.
128. 408.9 - Replacement Panel Boards: The requirements for the replacement of panel boards in electrical installations.
129. 410.184 - Ground-Fault Circuit-Interrupter (GFCI) Protection and Special Purpose Ground-Fault Circuit-Interrupter (SPGFCI) Protection: Knowledge of the requirements for GFCI and SPGFCI protection.
130. 422.16(B)(2) - Dishwashers and Trash Compactors: The requirements for the installation of dishwashers and trash compactors in electrical systems.
131. 430.2 - Recondition Motors: Comprehending the regulations and considerations for reconditioned motors.
132. 450.1 - Scope: Understanding the scope and coverage of electrical systems as per NEC guidelines.
133. 501.10(A)(1) - General (In Class I, Division 1 Locations): The requirements for electrical equipment in Class I, Division 1 locations.
134. Article 512 - Cannabis Oil Equipment and Cannabis Oil Systems Using Flammable Material: Knowledge of regulations specific to cannabis oil equipment and systems.
135. 517.20(A) - Wet Procedure Locations (Receptacles and Fixed Equipment): The requirements for receptacles and fixed equipment in wet procedure locations.
136. 547.26 - Physical Protection (Agricultural Buildings): Comprehending the requirements for physical protection in agricultural buildings.
137. 547.44 - Equal Potential Planes and Bonding of Equal Potential Planes (Agricultural): The requirements for equal potential planes and bonding of equal potential planes in agricultural electrical systems.
138. 550.32(A) - Service Equipment (Mobile Homes): Understanding the regulations for service equipment in mobile homes.
139. 555.35(D) - Leakage Current Measurement Device: Knowledge of the regulations for leakage current measurement devices.
140. 555.14 - Equal Potential Planes and Bonding of Equal Potential Planes (Marinas): The requirements for equal potential planes and bonding of equal potential planes in marina electrical systems.
141. 600.5(A) - Time Clocks in Similar Devices: Comprehending the regulations for time clocks and similar devices.
142. 625.44(A) - Portable Equipment: The requirements for portable equipment in electrical systems.
143. 630.8 - GFCI Protection for Personnel (Electric Welders): Understanding the requirements for GFCI protection in electric welder installations.
144. 680.5 - GFCI and SPGFCI Protection: The requirements for ground-fault circuit-interrupter and swimming pool ground-fault circuit-interrupter protection in electrical systems.
145. 680.21(D) - Pool Pump Motor Replacement: Comprehending the regulations for pool pump motor replacements.
146. 690.4(G) - PV Equipment Floating on Bodies of Water: The requirements for photovoltaic equipment floating on bodies of water in electrical systems.
147. 690.41 - PV System DC Circuit Grounding and Protection: The requirements for grounding and protection in photovoltaic systems.
148. 700.3(F) - Temporary Source of Power List Item (Four): Knowledge of the regulations and considerations for temporary power sources.
149. 700.8 - Surge Protection: Understanding the requirements for surge protection in electrical installations.
150. 840.160 - Powering Circuits: The requirements for powering circuits in fire alarm systems.
**Grounding and Bonding**
151. 100 Definitions…Bonded (Bonding)
152. 100 Definitions…Bonding Jumper, Equipment. (Equipment Bonding Jumper)
153. 100 Definitions…Bonding Jumper, Main. (Main Bonding Jumper)
154. 100 Definitions…Ground-Fault Circuit Interrupter (GFCI)
155. 100 Definitions…Grounding Conductor, Equipment (EGC). (Equipment Grounding Conductor)
156. 100 Definitions…Grounding Electrode.
157. 100 Definitions…Grounding Electrode Conductor (GEC).
158. 100 Definitions…Bonding Jumper, Supply-Side. (Supply-Side Bonding Jumper)
159. 250.4(A)(1) Electrical System Grounding…Grounded Systems
160. 250.4(A)(5) Effective Ground-Fault Current Path…Grounded Systems.
161. 250.8 Connection of Grounding and Bonding Equipment.
162. 250.12 Clean Surfaces.
163. 250.20(A) Alternating-Current Systems of Less Than 50 Volts…AC Systems to Be Grounded.
164. 250.32(A) Grounding Electrode System and Grounding Electrode Conductor…Buildings or Structures Supplied by a Feeder(s) or Branch Circuit(s).
165. 250.52(A)(1) Metal Underground Water Pipe…Electrodes Permitted for Grounding.
166. 250.52(A)(3) Concrete-Encased Electrode…Electrodes Permitted for Grounding.
167. 250.52(A)(5) Rod and Pipe electrodes…Electrodes Permitted for Grounding.
168. 250.52(B) Not Permitted for Use as Grounding Electrodes.
169. 250.64(B) Securing and Protection Against Physical Damage…Grounding Electrode Conductor Installation.
170. 250.68(A) Accessibility…Grounding Electrode Conductor and Bonding Jumper Connection to Grounding electrodes.
171. 250.68(C) Grounding Electrode Conductor Connections to Grounding Electrodes.
172. 250.92(A) Bonding of Equipment for Services.
173. 250.92(B) Method of Bonding at the Service.
174. 250.94(A) The Intersystem Bonding Termination Device.
175. 250.96(A) General…Bonding Other Enclosures.
176. 250.97 Bonding for Over 250 Volts to Ground.
177. 250.106 Lightning Protection Systems.
178. 250.114 Equipment Connected by Cord and Plug.
179. 250.118(A)(5) Listed Flexible Metal Conduit…Permitted Uses for Types of Equipment Grounding Conductors.
180. 250.119(B) Identification of Wire-Type Equipment Grounding Conductors 4 AWG and Larger.
181. 250.122(E) Flexible Cord and Fixture Wire…Size of Equipment Grounding Conductors.
182. 250.122(F)(1) Conductor Installations in Raceways, Auxiliary Gutters, or Cable Trays…Size of equipment Grounding Conductors for Parallel Installations.
183. 250.130(C) Replacement of Nongrounding Receptacle or Snap Switch and Branch Circuit Extensions.
184. 250.140 Frames of Ranges and Clothes Dryers.
185. 250.146(A&B) Connecting Receptacle Grounding Terminal to an Equipment Grounding Conductor…Surface Mounted Box…Contact Devices or Yokes.
186. 547.44 Equipotential Planes and Bonding of Equipotential Planes.
187. 406.3(E) Isolated Ground Receptacles…Receptacle Rating Type.
188. 820.93 Grounding of the Outer Conductive Shield of Coaxial Cables.
189. 555.37(A&B) Equipment to Be Connected to Equipment Grounding Conductor. & Type of Equipment Grounding Conductor…Marinas, Boatyards, and Commercial/Noncommercial Docking Facilities.
190. 250.126
191. 250.124 Equipment Grounding Conductor Continuity.
192. 680.21(C) Ground-Fault Protection…Motors Serving Swimming Pools, Fountains, and Similar Installations.
193. 680.22(A)(1-4) GFCI & SPGFCI Protection, Required Receptacle & Other Receptacle Locations, Circulation and Sanitation System, Location… Swimming Pools, Fountains, and Similar Installations.
194. 680.26(B)(1) Conductive Pool Shells…Bonded Parts of Equipotential Bonding… Swimming Pools, Fountains, and Similar Installations.
195. 680.26(C) Pool Water…Equipotential Bonding…
196. 682.33 Equipotential Planes and Bonding of Equipotential Planes…Natural and Artificially Made Bodies of Water.
197. 250.10 Protection of Ground Clamps and Fittings.
198. 810.7 Grounding Devices…Antenna Systems.
199. 810.21 Bonding Conductors and Grounding Electrode Conductors- Receiving Stations…Antenna Systems.
200. 645.15 Equipment Grounding and Bonding…Information Technology Equipment.
**Residential**
201. Definition of "Continuous Load" according to Article 100 of NEC
202. Definitions of "Device", "Outlet", "Receptacle", & "Receptacle Outlet" according to Article 100 of NEC
203. Definitions of "Feeder" & "Branch Circuit" according to Article 100 of NEC
204. Requirements for Dwelling Unit Receptacle Outlets according to 210.52 of NEC
205. Spacing and Wall Space requirements for Dwelling Unit Receptacle Outlets according to 210.52(A)(1&2) of NEC
206. Wall Space and Island and Peninsular Countertops and Work Surfaces requirements for Dwelling Unit Receptacle Outlets according to 210.52(C)(1&2) of NEC
207. Receptacle Outlet Location requirements according to 210.52(C)(3) of NEC
208. Requirements for Bathrooms according to 210.52(D) of NEC
209. Outdoor Outlet requirements for One- & Two-Family Dwellings and Multifamily Dwellings according to 210.52(E)(1&2) of NEC
210. Requirements for Balconies, Decks, and Porches according to 210.52(E)(3) of NEC
211. Requirements for Laundry Areas according to 210.52(F) of NEC
212. Requirements for Basements, Garages, and Accessory Buildings according to 210.52(G) of NEC
213. Requirements for Hallways and Foyers according to 210.52(H&I) of NEC
214. GFCI Protection in Dwelling Units for Bathrooms according to 210.8(A)(1) of NEC
215. GFCI Protection in Dwelling Units for Garages and Accessory Buildings according to 210.8(A)(2) of NEC
216. GFCI Protection in Dwelling Units for Outdoors according to 210.8(A)(3) of NEC
217. GFCI Protection in Dwelling Units for Crawl Spaces and Basements according to 210.8(A)(4) of NEC
218. GFCI Protection in Dwelling Units for Kitchens according to 210.8(A)(6) of NEC
219. GFCI Protection in Dwelling Units for Areas with sinks and permanent provisions for food prep, receptacles within 6' of sinks, Bathtubs/Shower Stalls according to 210.8(A)(7,8,10) of NEC
220. GFCI Protection in Dwelling Units for Laundry Areas according to 210.8(A)(11) of NEC
221. GFCI Protection in Dwelling Units for Indoor Damp and Wet Locations according to 210.8(A)(12) of NEC
222. Equipment Requiring Servicing according to 210.63 of NEC
223. GFCI Protection for Personnel for Specific Appliances according to 210.8(D) of NEC
224. Distance of Receptacle Outlet from Appliance according to 210.50(C) of NEC
225. AFCI Protection in Dwelling Units according to 210.12(A) of NEC
226. AFCI for Branch Circuit Wiring Extensions, Modifications, or Replacements according to 210.12(E) of NEC
227. Dwelling Unit Small-Appliance Branch Circuits according to 210.11(C)(1) of NEC
228. Required Dwelling Unit Branch Circuits for Laundry Branch Circuit according to 210.11(C)(2) of NEC
229. Required Dwelling Unit Branch Circuits for Bathroom Branch Circuit
230. Dwelling Unit Branch Circuit Voltage Limitations according to 210.6(A) of NEC
231. Minimum Ampacity and Size of Branch Circuit Conductors according to 210.19(A) of NEC
232. Permissible Loads on 15- and 20- Ampere Branch Circuits according to 210.23(B) of NEC
233. Cord-and-Plug-Connected Load and Maximum Cord-and-Plug-Connected load to Receptacle according to 210.21(B)(2) and Table 210.21(B)(2) of NEC, respectively
234. Receptacle Ratings for Circuits Serving More Than One Receptacle or Receptacle Outlet and Receptacle Outlets according to 210.21(B)(3) and Table 210.21(B)(3) of NEC, respectively
235. Loads for Additions to Existing Installations in Dwelling Units according to 220.16(A) of NEC
236. Lighting Outlets Required in Dwelling Unit Habitable Rooms, Kitchens, Laundry Areas, and Bathrooms according to 210.70(A)(1) of NEC
237. Required Lighting Outlets in Additional Locations of Dwelling Units according to 210.70(A)(2) of NEC
238. Required Lighting Outlets Located in All Occupancies according to 210.70(C) of NEC
239. Definitions of Damp, Dry, and Wet Locations according to Article 100 of NEC
240. Conductor Applications and Insulations Rated 600 Volts and Conductors according to 110.5 and Table 310.4(1) of NEC, respectively
241. Equipment Provisions, Temperature Limitations, Electrical Connections according to 110.14(C)(1) of NEC
242. Nonmetallic-Sheathed Cable: Types NM and NMC Uses Permitted according to 334.10 of NEC
243. Small Conductors and Protection of Conductors according to 240.4(D) of NEC
244. Bending Radius, Securing and Supporting, and Ampacity of Nonmetallic-Sheathed Cable: Types NM and NMC according to 334.24, 334.30, and 334.80 of NEC, respectively
245. Conductors and Cables Entering Boxes, Conduit Bodies, or Fittings according to 314.17 of NEC
246. Flush-Mounted Installations for Outlet, Device, Pull, and Junction Boxes according to 314.20 of NEC
247. Outlet Boxes Without Enclosed Devices or Utilization Equipment and Outlet and Device Boxes with Enclosed Devices or Utilization Equipment according to 314.24(A & B) of NEC
248. Luminaire or Lampholder outlet box installation on vertical surfaces and at Ceiling outlets according to 314.27 of NEC
249. Boxes at Ceiling-Suspended (Paddle) Fan Outlets according to 314.27(C) of NEC
250. Multiwire Branch Circuits according to 210.4 of NEC.
**NFPA 70E**
251. 90.2(A) Scope…Covered
252. 90.2(B) Scope…Not Covered
253. 90.4 Mandatory/Permissive Rules
254. Definitions…Arc Flash Hazard
255. Definitions…Arc Rating
256. Definitions…Boundary, Arc Flash
257. Definitions…Boundary, Limited Approach
258. Definitions…Boundary, Restricted Approach
259. Definitions…Electrical Safety Program
260. Definitions…Electrically Safe Work Condition
261. Definitions…Available Fault Current
262. Definitions…Incident Energy/Analysis
263. Definition…Risk Assessment
264. Definition…Step/Touch Potential
265. Definition…Qualified/Unqualified Person
266. Definition…Working On (energized elec. Parts)
267. 105.3 Responsibility/Employer/Employee
268. 110.3 Electrically Safe Work Condition
269. 110.4 Energized Work/ Additional Hazards
270. 110.4 Energized Work/ Infeasibility
271. 110.4 Energized Work/ Less than 50 Volts
272. 110.4(D) Normal Operating Conditions
273. 110.5 Electrical Safety Program/ Awareness…
274. 110.5(H) Risk Assessment Procedure/Elements/Human Error
275. 110.5(H) Risk Assessment/ Hierarchy of Risk Control Methods
276. 110.5(I) Job Safety Planning/Briefing/Change in Scope
277. 110.5(M) Auditing
278. 110.6(A) Electrical Safety Training/ Qualified Person
279. 110.6(A) Electrical Safety Training/ Unqualified Person
280. 110.6(A) Electrical Safety Training/ Additional & Retraining
281. 110.6(B) LOTO Training/ Retraining
282. 110.6(C) Emergency Response Training
283. 110.8 Test Instruments & Equipment
284. 110.9 Portable Cord- and-Plug-Connected Electrical Equipment
285. 110.10 Groun-Fault Circuit-Interrupter (GFCI) Protection.
286. 120.1 LOTO Program
287. 120.2 LOTO Principles
288. 120.3 LOTO Equipment
289. 120.4(A) LOTO Procedures/ Planning
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291. 120.4(B) LOTO Procedures/ Elements of Control
292. 120.5 Process for Establishing/Verifying Elec. Safe Work Condition
293. 130.1 Work Involving Electrical Hazards…General
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299. 130.5 Arc Flash Assessment
300. Table 130.5(C) Estimate of Likelihood of Occurrence of Arc Flash
301. 130.5(G) & Table 130.5(G) Incident Energy Analysis Method
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