

## With Potential Cost Impacts

## Article 90

2024 Code Section	Code Title	Year	Type of Change	Add, Mod, or Relo	Summary	Cost	Est	Comments
90.1	Scope	2023	Instructional		2023 Pulls the word "Scope" out of previous Section 90.2 and give it's a very broad and defination	No		
90.2	Use and Application	2023	Format		Merged 90.1 and 90.2	No		
90.2(A)	Practical Safeguarding	2014	Instructional		Added "This Code is not intended ..... for untrained persons.	No		
90.2(C)	Installations Covered	2017	Scope		Added "and removal"	Yes		At the state level the removal of electrical equipment is not required to be permitted. This is done at the local level.
90.2(C)(5)	Installations Covered	2020	Scope		Added "Installations supplying show power to ships and watercrafts in marina and boatyards, including monitoring of leakage current"	Yes		
90.2(C)(6)	Installations Covered	2020	Scope		Added "Installations used to export electrical power from vehicles to premiser wiring or bidirectional current flow"	No		New Technology not covered in previous code
90.2(D)(5)d.	Installations Not Covered	2011	Scope		Added locations where by written agreement desigated by public serciecs commisions, utilites, or other regulatory agencies... in land where rights-of-ways cannot be legally established.	No		Very few if any. State statue already excepts codes in such locations
90.2(D)(5)	Installations Not Covered	2017	Scope		Added "energy storage" to railways, utilites, are areas of written agreement	No		Very few if any. State statue already excepts codes in such locations
90.2(E)	Relation to Other International Standards	2023	Instructional		Added " Low-voltage Electrical Installations - Part 1:" due to update to referenced code standard 60364-1	Unkno wn		I do not know what this code standard coveres
90.2(F)	Special Permission	2014	Scope		Added "at a readily accessible location" to terminations inside of buildings	No		
90.4	Enforcement	2023	Format		Took orginal text in paragraph format and converted to substations	No		
90.6	Formal Interpetations	2020	Instructional		Updated name of NFPA Regulations body	No		

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Section 100

2024 Code Section	Code Title	Year	Type of Change	Add, Mod, or Relo	Summary	Cost	Est	Comments
100	Accessible (as applied to equipment)	2020	Definition	Mod	Removed "Admitting close approach; not guarded by locked doors, elevation, or other effective means" replaced with Capable of being readhed for operation, renewal, and inspection	No		improved clarity
100	Accessible (as applied to wiring methods)	2023	Definition	Mod	Added "or blocked by the structure, other electrical equipment, other building systems"	No		
100	Accessible, Readily	2014	Definition	Mod	Added " take actions such as to use tools (other than keys)"	Yes		Screws or special tools are no longer allowed.
100	Adapter	2023	Definition	Add	Term added to Definitions Section	No		Newer Term for Plug & Receptical
100	Adjustable Speed Drive	2014	Definition	Relo	Term relocated to Definitions Section	No		
100	Adjustable Speed Drive System	2014	Definition	Relo	Term relocated to Definitions Section	No		
100	Alternate Power Source	2023	Definition	Add	Term added to Definitions Section	No		
100	Ambulatory Health Care Occupancy	2023	Definition	Add	Term added to Definitions Section	Yes		Aligns with 2022 NFPA 101 and defines it more detailed than IBC codes. Will place more strengent requirments on B-Occupancy buildings
100	Amplifier (Audio Amplifier) (Pre-Amplifier)	2023	Definition	Add	Term added to Definitions Section	No		
100	Applicator	2023	Definition	Relo	Term relocated to Definitions Section	No		
100	Arc-Fault Circuit Interrupter (AFCI).	2011	Definition	Add	Term added to Definitions Section	No		
100	Array	2023	Definition	Add	Term added to Definitions Section	No		
100	Associated Apparatus	2017	Definition	Relo	Term relocated to Definitions Section	No		
100	Associated Nonincendive Field Wiring Apparatus	2017	Definition	Relo	Term relocated to Definitions Section	No		
100	Attachment Fitting, Weight-Supporting (WSAF) (Weight-Supporting Attachment Fitting).	2023	Definition	Add	Term added to Definitions Section	No		New Technology not covered in previous code
100	Audio Autotransformer.	2023	Definition	Relo	Term relocated to Definitions Section	No		
100	Audio Signal Processing Equipment (Audio Equipment)	2023	Definition	Relo	Term relocated to Definitions Section	No		
100	Audio System.	2023	Definition	Relo	Term relocated to Definitions Section	No		
100	Audio Transformer	2023	Definition	Relo	Term relocated to Definitions Section	No		
100	Automatic	2011	Definition	Mod	Term redefined to be more broadbased	Yes		
100	Bathroom	2011	Definition	Mod	Term redefined replaceing basin with "sink" and adding "..., a urinal, ... a bidet, or similar plumbing fixtures"	Yes		Expanded possible rooms designed as Bathroom
100	Battery	2023	Definition	Add	Term added to Definitions Section (added to 706 in 2017, moved to 100 in 2023)	No		New Technology not covered in previous code
100	Battery, Flow	2023	Definition	Add	Term added to Definitions Section (added to 706 in 2017, moved to 100 in 2023)	No		New Technology not covered in previous code

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100	Battery, Sealed	2023	Definition	Add	Term added to Definitions Section (added to 706 in 2017, moved to 100 in 2023)	No		New Technology not covered in previous code
100	Battery, Stationary Standby. (Stationary Standby Battery)	2023	Definition	Add	Term added to Definitions Section (added to 706 in 2017, moved to 100 in 2023)	No		New Technology not covered in previous code
100	Battery-Powered Lighting Units	2023	Definition	Add	Term added to Definitions Section (added to 517 in 2011, moved to 100 in 2023)	No		New Technology not covered in previous code
100	Berth	2023	Definition	Add	Term added to Definitions Section (added to 555 in 2020, moved to 100 in 2023)	No		
100	Bipolar Circuit.	2023	Definition	Add	Term added to Definitions Section	No		
100	Block	2023	Definition	Relo	Term relocated from 800 to Definitions Section	No		
100	Boatyard	2023	Definition	Add	Term added to Definitions Section (added to 555 in 2020, moved to 100 in 2023)	No		
100	Bodies of Water, Artificially Made	2023	Definition	Relo	Term relocated from 682 to Definitions Section	No		
100	Bodies of Water, Natural	2023	Definition	Relo	Term relocated from 682 to Definitions Section	No		
100	Bonding Conductor	2023	Definition	Mod	Term renamed from "Bonding Jumper"	No		
100	Bonding Jumper, Main	2020	Definition	Mod	Added "or the supply-side bonding jumper, or both"	No		
100	Bonding Jumper, Supply-Side	2020	Definition	Relo	Term relocated to Definitions Section	No		
100	Bonding Jumper, System	2011	Definition	Relo	Term relocated to Definitions Section	No		
100	Border Light	2011	Definition	Relo	Term relocated from 520 to Definitions Section	No		
100	Bottom Shield	2023	Definition	Relo	Term relocated from 324 to Definitions Section	No		
100	Branch Circuit, Motor	2023	Definition	Add	Term added to Definitions Section	No		
100	Branch-Circuit Overcurrent Device	2011	Definition	Relo	Term Removed from Definitions Section	No		
100	Branch-Circuit Selection Current	2023	Definition	Relo	Term relocated from 440 to Definitions Section	No		
100	Breakout Assembly	2023	Definition	Relo	Term relocated from 520 to Definitions Section	No		
100	Broadband	2023	Definition	Add	Term added to Definitions Section	No		New Technology not covered in previous code
100	Building, Floating	2023	Definition	Add	Term added (added to 555 in 2020, moved to 100 in 2023)	Yes		Defined by code - but in previous scope?
100	Building, Manufactured	2023	Definition	Relo	Term relocated from 545	No		
100	Building Component	2023	Definition	Relo	Term relocated from 545	No		
100	Building System	2023	Definition	Relo	Term relocated from 545	No		
100	Bulkhead	2023	Definition	Add	Term added (added to 555 in 2020, moved to 100 in 2023)	No		
100	Bull Switch	2023	Definition	Relo	Term relocated from 530	No		
100	Bundled	2023	Definition	Relo	Term relocated from 530	No		
100	Busbar	2023	Definition	Add	Term added (added to 363 in 2014, moved to 100 in 2023)	No		
100	Busbar Support	2023	Definition	Add	Term added (added to 363 in 2014, moved to 100 in 2023)	No		
100	Busway	2023	Definition	Relo	Term relocated from 368 to Definitions Section	No		
100	Cable, Abandoned	2023	Definition	Relo	Term relocated from 820.2	No		
100	Cable, Circuit Intergrity	2023	Definition	Add	Term added for section 728.4	No		
100	Cable, Coaxial	2017	Definition	Relo	Term relocated from 820.2	No		
100	Cable, Festoon	2011	Definition	Add	Term added (added to 610 in 2011)	No		

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2024 Code Section	Code Title	Year	Type of Change	Add, Mod, or Relo	Summary	Cost	Est	Comments
100	Cable, Flat Conductor	2023	Definition	Relo	Term relocated from 324.	No		
100	Cable, Instrumentation Tray	2023	Definition	Relo	Term relocated from 727	No		
100	Cable, Integrated Gas Spacer	2023	Definition	Add	Term added	No		
100	Cable, Limited Use	2023	Definition	Add	Term added - previous defined in 800.154	No		
100	Cable, Medium Voltage	2023	Definition	Relo	Term relocated from 328 and modified with "up to and including 35,000 volts, nominal."	Yes		
100	Cable, Metal Clad	2011	Definition	Add	Term added to 330 and relocated to 100	No		
100	Cable, Metallic Conductor	2011	Definition	Add	Term added - related to section 830.1 (added in 2011)	No		
100	Cable, Mineral-Insulated, Metal-Sheathed	2011	Definition	Add	Term added - relocated from 332 (added in 2011)	No		
100	Cable, Nonmetallic-Sheathed	2023	Definition	Relo	Term relocated from 334	No		
100	Cable, Nonmetallic-Sheathed (Type NM)	2023	Definition	Relo	Term relocated from 334	No		
100	Cable, Nonmetallic-Sheathed (Type NMC)	2023	Definition	Relo	Term relocated from 334	No		
100	Cable, Optical Fiber	2023	Definition	Relo	Term relocated from 770	No		
100	Cable, Optical Fiber, Conductive.	2023	Definition	Relo	Term relocated from 770	No		
100	Cable, Optical Fiber, Hybrid	2023	Definition	Relo	Term relocated from 770 - Org called Composite Optical Fiber	No		
100	Cable, Optical Fiber, Nonconductive	2023	Definition	Relo	Term relocated from 770	No		
100	Cable, Optical Fiber, Protected	2020	Definition	Add	Term added (2020)	No		
100	Cable, Portable Power Feeder	2023	Definition	Add	Term added (2023)	No		
100	Cable, Power and Control Tray	2017	Definition	Add	Term added - relocated from 336.1 (added in 2017)	No		
100	Cable, Service Entrance	2017	Definition	Relo	Term relocated from 338 (Added to 100 in 2017)	No		
100	Cable, Service Entrance (Type SE)	2017	Definition	Relo	Term relocated from 338 (Added to 100 in 2017)	No		
100	Cable, Service Entrance (Type USE)	2017	Definition	Relo	Term relocated from 338 (Added to 100 in 2017)	No		
100	Cable, Type P	2020	Definition	Add	Term related to 337 (Added in 2020)	No		
100	Cable, Under Carpet.	2023	Definition	Add	Term added	No		
100	Cable, Underground Feeder and Branch-Circuit	2023	Definition	Relo	Term relocated from 340	No		
100	Cable Assembly, Flat	2023	Definition	Relo	Term relocated from 322	No		
100	Cable Bundle	2020	Definition	Add	Term added - relocated from 725.2 (added in 2020)	No		
100	Cable Connector	2023	Definition	Relo	Term relocated from 324	No		
100	Cable Connector [as applied to hazardous (classified) locations]	2023	Definition	Add	Term added	No		
100	Cable Joint	2023	Definition	Add	Term added	No		
100	Cable Management System	2023	Definition	Relo	Term relocation from 626 and modified to remove "at electrified truck parking spaces."	No		
100	Cable Routing Assembly	2020	Definition	Added	Term added in 2020	No		
100	Cable Sheath	2023	Definition	Add	Term Added	No		

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100	Cable System, Fire-Resistive	2014	Definition	Add	Term relocated from 728 (Added in 2014)	No		
100	Cable System, Flat Conductor	2023	Definition	Add	Term added	No		
100	Cable Termination	2023	Definition	Add	Term added	No		
100	Cable Tray System	2023	Definition	Relo	Term relocated from 392	No		
100	Cablebus	2023	Definition	Relo	Term relocated form 370 and modified for clarity with no change in definition	No		
100	Cell (as applied to batteries)	2014	Definition	Add	Term relocated from 480 (Added in 2014)	No		
100	Cell, Sealed	2023	Definition	Relo	Term relocated from 480	No		
100	Cell Line	2023	Definition	Relo	Term relocated from 668	No		
100	Cell Line Attachments and Auxiliary Equipment	2023	Definition	Relo	Term relocated from 668	No		
100	Charge Controller	2023	Definition	Relo	Term relocated from 690 and modified with the addition of " or other energy storage device"	No		
100	Charger Power Converter	2017	Definition	Add	Term reloated from 625 (Added in 2017)	No		
100	Child Care Facility	2011	Definition	Add	Term relocated from 406 (Added in 2011)	No		Should we let the state determin this via IAC
100	Circuit Breaker, Inverse Time	2023	Definition	Mod	Term modified relocation, "purposely introduced" after the word delayed, was before the word.			
100	Setting (of circuit breakers)	2023	Definition	Deleted	Term was deleted from definitions in the 2023 edition	No		

Changes to the NEC 70 from 2008 to 2023  
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 Section 110

2024 Code Section	Code Title	Year	Type of Change	Add, Mod, or Relo	Summary	Cost	Est.	Comments
110.3 (A) (8)	Cybersecurity	2023	Scope	Add	Cybersecurity was added to the considerations of evaluating equipment	yes		Adding new tech or tech related
110.3 (B)	Installation and Use	2023	Scope	Add	Redefines listed, labeled or both, equipment, adding the words identified.	no		Enhanced content refers to QR codes as the genesis of the change
110.3 (C)	Listing	2023	Scope	Add	Add product certification requirement to equipment for code compliance	yes		
110.8	Wiring methods	2023	Scope	Add	Added premises wiring systems	yes		Possible cost impact, feels more like a establishment of a clear demising line
110.12 (C)	Execution of Work - Cables and Conductors	2020	Scope	Add	Include instruction for cables and conductors installed on the ceiling and walls of buildings	yes		
110.14	Electrical Connections	2011	Defination	Mod	Clarifies Electrical Connections	no		
110.14 (A)	Connections - Terminals	2023	Defination	Mod	Changes "thoroughly good" to "mechanically secure electrical"	no		
110.14 (D)	Connections - Terminal Torque	2017	Defination	Add	Requires Torque vaules to be listed on the equipment	no		
110.16 (A)	Arc-Flash Hazard Warning	2017	Defination	Add	List specific section warning label must follow	no		
110.16 (B)	Arc-Flash - Equip and Feeder	2023	Scope	Add	Requires permanent arc flash lables on equipment and feeders over 1000 amps	no		Industry Standard
110.17	Servicing & Maintenance	2023	Scope	Add	Required service and maintenance, by qualified persons, per manufactures written procedures, and replacement with idenfided parts .	yes		Industry Standard but now required
110.20	Reconditioned Equipment	2023	Scope	Add	Allows and laies out requirments for reconditioned equipment to be used	yes		Cost savings here, but how much?
110.21	Markings	2023	Scope	Add	Modified to allow reconditioned equipment and field-applied hazard markings	no		
110.22 (A)	Identification of Diconnection	2020	Scope	Mod	Adds exceptions for One and Two family dwelling units	yes		some savings but very little as never followed
110.22 (B)	Eng, Series Combination	2011	Defination	Add	Adds section to which this section is applicable	no		
110.22 (C)	Eng, Series Combination	2011	Defination	Add	Adds section to which this section is applicable	no		
110.24	Available Fault Current	2011	Scope	Add	Requires Field Marking for AFC and date of caculation. Requires new caculations and markings after modifcaitons			
110.25	Lockable Disconnecting Means	2017	Defination	Add	Clarifies Lockability of locking disconnects	no		
110.26	Spaces about Electrical Equipment	2023	Scope	Add	Egress is included, and open equipment doors cannot impede access/egress	yes		This will take more space in a building
110.26 (A)	Depth of Working Space	2017	Scope	Add	Added category for 600 to 1000 volts and a 4ft requierment	yes		This will take more space in a building
110.26 (A) (3)	Height of Working Space	2011	Scope	Mod	Exception for dwelling units added	yes		Save some cost in speciiic situations
110.26 (A) (4)	Limited Access	2017	Defination	Add	Included restrictions on locations with limited access	no		
110.26 (A) (5)	Separation from High-Voltage	2017	Scope	Add	Requirments added for separation of equipment	yes		This will take more space in a building
110.26 (A) (6)	Grade, Floor, Platform	2023	Scope	Add	Requirements added for working space	yes		This will take more space in a building
110.26 (E)	Dedicated Equipment Space	2023	Defination	Add	Added service equipment to dedicated equipment space	no		
110.27 (A) (4)	Guarding of Live Parts Height	2017	Defination	Add	Added additional height requirements for equipment 300 v or greater	no		
110.28	Enclosure Types	2017	Defination	Relo	Enclosure Types were relocated to this section from 110.20	no		
110.29	In Sight	2023	Defination	Add	Added definition to the phrase in sight of to be 15 ft	no		
110.31 (A)	Electrical Vaults	2011	Defination	Add	Added exceptions to 3hr rating for sprinkler systems	yes		Cost Savings
110.31 (A)	Electrical Vaults	2011	Scope	Add	Doors must be locked and specific requirements for transformers added	yes		Some cost add
110.32	Work Space about Equipment	2020	Defination	Add	Included additional information regarding height clearance and location of working space within an corridor or passageway	no		
110.33	Access to working spaces	2023	Defination	Add	Defines that open doors are impedments to open spaces.	yes		This will take more space in a building
110.34	Work Space and Guarding	2023	Defination	Add	Defines the requirements of the floor or grade of the working surface	no		
110.34 (D)	Illumination	2017	Scope	Add	Added that Control by Automatic means only shall not be permitted	no		
110.41	Inspections and Test	2017	Scope	Add	Inspections and testings shall be made available at request of the AHJ	no		