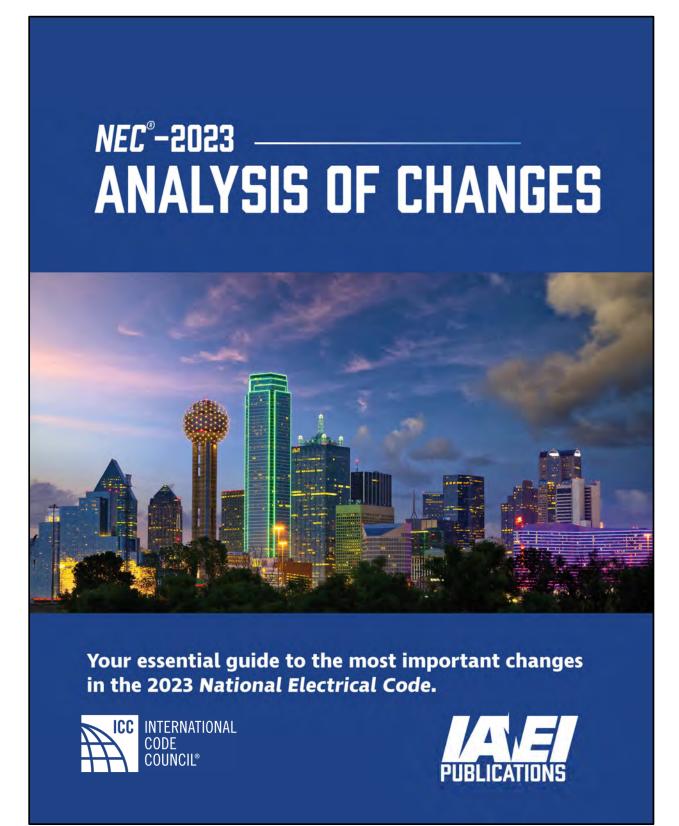
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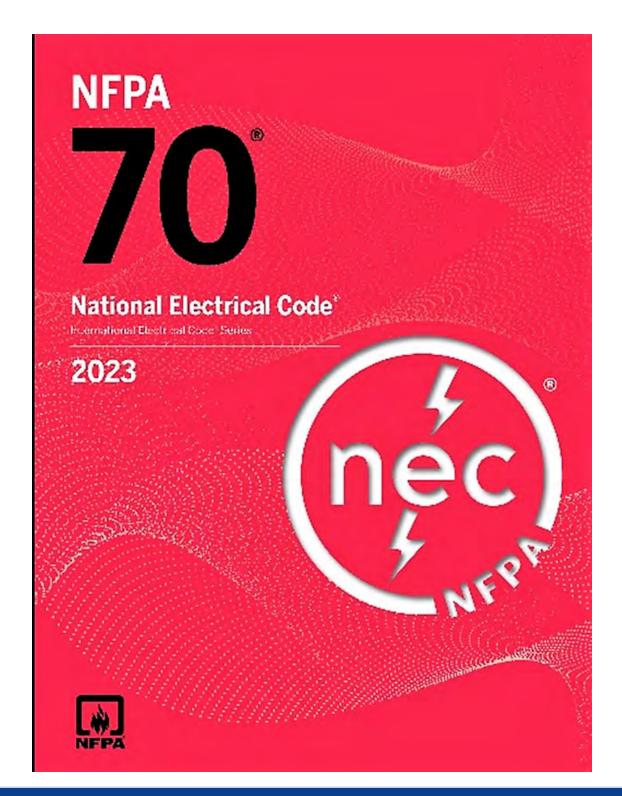


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This presentation is based on the requirements of the 2023 edition of the *National Electrical Code (NEC)*

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Accessing the NEC



- WWW.NFPA.org/70
 - Free online access
 - Fire Codes Subscription Services
 - NFPA LINK









Class time frame is short, so a brief very overview was provided without going in depth to the changes that occurred.

Material (selected slides) from a larger copyrighted program was used

Style Manual changes required revisions to Articles

90.3 – Chapters 1 thru 4 apply to all installations, no need to repeat requirements in later chapters

Revise wording to be similar in terms, use and applications for uniform understanding of the requirements

Relocation of ALL definitions to one article (Article 100)

New articles added to the 2023 edition of the NEC



Types of changes that were covered

Changes that may have application to engineering were selected Changes that were only editorial in nature were not included Selected definitions were included relating to engineering uses New terms that clarified existing (ie recondition vs servicing) Clarifications about the working spaces about electrical equipment New markings required for Feeders as well as Services

Additions (relocations) in Calculations

Changes in GFCI requirements



Types of changes that were covered continued

Relocation of calculation diversities from Chapter 5 into Article 220 (health care receptacles, marinas and boatyards, RV parks)

Minimum load for EV chargers mandated, Energy Management systems permitted use with calculations

Class 1 remote controlled, signaling circuits relocated into a new Article with reflected changes in Article 300

New Class 4 circuits added (aka digital power, pulse power, fault managed power circuitry)

Cybersecurity Awareness



Types of changes that were covered continued

Changes in panelboards orientations

Changes in replacing new panelboards in old existing cabinets

New part XVII of Art 410 covering germicidal irradiation

New heating – cables in walls effective January 1, 2026

Locations and clearances required for heating and cooling equipment

Emergency shut offs for generators & prime movers



Time constraints prohibit providing an overview of the changes that have been made within these chapters that are worth checking out.

Art 512 for Cannabis Oil Equipment using flammable materials – is a Hazardous Classified location.

Art 555 Marinas, Boatyards etc – equipotential plane requirements

Art 670 Industrial Machines – SPDs

Art 680 & 682 – Swimming pools, etc, and bodies of water

Art 690 + 705 Alternative energies and interconnections.

Art 796 Energy Storage

Art 724 for Class 1 systems

Art 726 for Fault Managed Systems (pulse power or digital power)

Chapter 8 – issues with becoming more mainstream in future





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NEC 410 & 411