

## ADVANCED FLORIDA BUILDING CODE 2023: KEY MECHANICAL, ELECTRICAL, AND PLUMBING CHANGES IN RESIDENTIAL CONSTRUCTION

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## COURSE INFORMATION

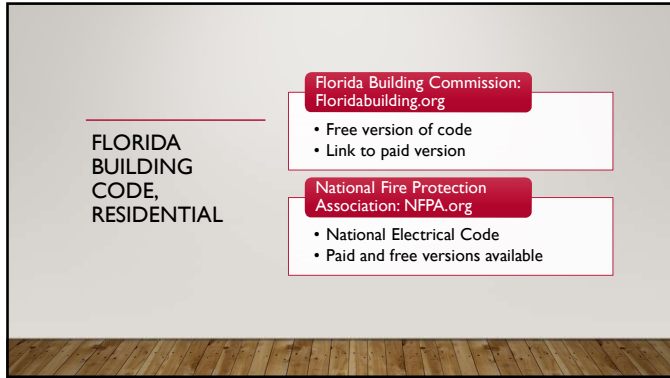
Advanced Florida Building Code 2023:  
Key Mechanical, Electrical, and Plumbing Changes in Residential Construction  
1 Hour Advanced Credit  
Training Provider: Florida Home Builders Association  
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CIBA & BCAB Provider # 0000916  
FBPE Provider # 0008633  
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## OUTLINE

- 2023 Florida Building Code, Residential: Part V Mechanical
- 2023 Florida Building Code, Residential: Part VII Plumbing
- 2023 Florida Building Code, Residential: Part VIII Electrical (2020 National Electrical Code)

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## 2023 FBCR: PART V MECHANICAL

- M1411.9 Support of Refrigerant Piping
  - Refrigerant piping and tubing shall be securely fastened to a permanent support within 6 feet of the condensing unit.

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## 2023 FBCR: PART V MECHANICAL

- M1502.3 Duct Termination (Clothes Dryer)
  - Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacture's installation instructions. If the manufacturer does not specify a termination location, the exhaust duct shall terminate not less than 3 feet in any direction from openings into buildings, **including openings in ventilated soffits.**

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## 2023 FBCR: PART V MECHANICAL

- M1502.4.8 Booster Fans Prohibited
  - Domestic booster fans shall not be installed in dryer exhaust systems.

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## 2023 FLORIDA BUILDING CODE, RESIDENTIAL: PART VII PLUMBING

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## 2023 FBCR: PART VII PLUMBING

- P2503.4 Building sewer testing.
  - The building sewer shall be tested by insertion of a test plug at the point of connection with the public sewer, completely filling the building sewer with water **from the lowest to the highest point thereof**. The test pressure shall not decrease during a period of not less than 15 minutes. The building sewer shall be watertight at all points.
  - 5 feet column of water no longer required.

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## 2023 FBCR: PART VII PLUMBING

- P2503.5.1 Rough plumbing.
  - DWV systems shall be tested on completion of the rough piping installation by water, air for piping systems other than plastic, or by a vacuum of air for plastic piping systems, without evidence of leakage. The test shall be applied to the drainage system in its entirety or in sections after rough-in piping has been installed, as follows:
    - Water test (Still requires 5 feet above highest fitting)
    - Air test
    - Vacuum test (New allowable method)

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### 2023 FBCR: PART VII PLUMBING

- P301 I Relining of Building Sewers and Building Drains
  - Deleted requirements for replacing underground sewers
  - New prescriptive requirements for relining drains
  - Alternative to trenching, cutting, and excavating

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### 2023 FLORIDA BUILDING CODE, RESIDENTIAL: PART VIII ELECTRICAL (2020 NATIONAL ELECTRICAL CODE)

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### 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- NEC Article 100 New Definition of Habitable Room
  - A room in a building for living, sleeping, eating, or cooking, but excluding bathrooms, toilet rooms, closets, hallways, storage, or utility spaces, and similar areas.
  - "Habitable room or area" is used throughout the code.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 210.8 GFCI Protection
  - Now includes up to 250 volts.
  - Laundry areas
  - Garages
  - Outdoors

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- E3408 GFCI Protection (Amendment to 210.8 NEC)
- **(F) Outdoor Outlets.** All outdoor outlets for dwellings, other than those covered in 210.8(A)(3), Exception to (3) that are supplied by single-phase branch circuits rated 150 volts to ground or less, 50 amperes or less, shall have ground-fault circuit-interrupter protection for personnel.
  - **Exception No. 1:** Ground-fault circuit-interrupter protection shall not be required on lighting outlets other than those covered in 210.8(C).
  - **Exception No. 2:** GFCI protection shall not be required for listed and labeled HVAC equipment.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 210.52(C) Countertops and Work Surfaces
  - Countertop receptacles can not be used to satisfy wall spacing requirement.

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### 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 210.52 (C)(2) Island and Peninsular Countertops and Work Surfaces
  - At least one receptacle for first 9 square feet and each additional receptacle for each additional 18 square feet.
  - Located within 2 feet from end.
  - Additional receptacles may be located at any location.
  - Other requirements for under a counter still apply.

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### 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 230.67 Surge Protection
  - Surge protection device now required at the electrical service.
  - Applies to change outs as well.

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### 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 230.85 Emergency Disconnects
  - Disconnecting means must now be installed outside.
  - Labeled as EMERGENCY DISCONNECT

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## 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 310.12 Single-Phase Dwelling Services and Feeders
  - Table 310.12 if no adjustment or correction factors are applied.
  - Can still use 83% method.

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## 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 314.27 Outlet boxes
  - Outlet boxes mounted in the ceilings of habitable rooms of dwelling occupancies in a location acceptable for the installation of a ceiling suspended fan now requires appropriate box for a paddle fan.

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## 2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 406.5 Receptacle Mounting
  - Receptacles shall not be installed in a face up position under a sink.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 408.36 Overcurrent Protection Panelboards)
  - Multiple service disconnects can not be installed in same enclosure.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 422.16 Flexible Cords. (Appliances)
  - Built-in dishwashers and trash compactors.
  - Where the flexible cord passes through an opening, it shall be protected against damage by a bushing, grommet, or other approved means.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 445.6 Listing (Generators)
  - Generators are now required to be listed.

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2023 FBCR: PART VIII ELECTRICAL (2020 NEC)

- 445.18 (D) Generator Disconnecting Means and Emergency Shutdown
  - One- and two-family generators now require a disconnecting means located outside the structure and readily accessible.

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