

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

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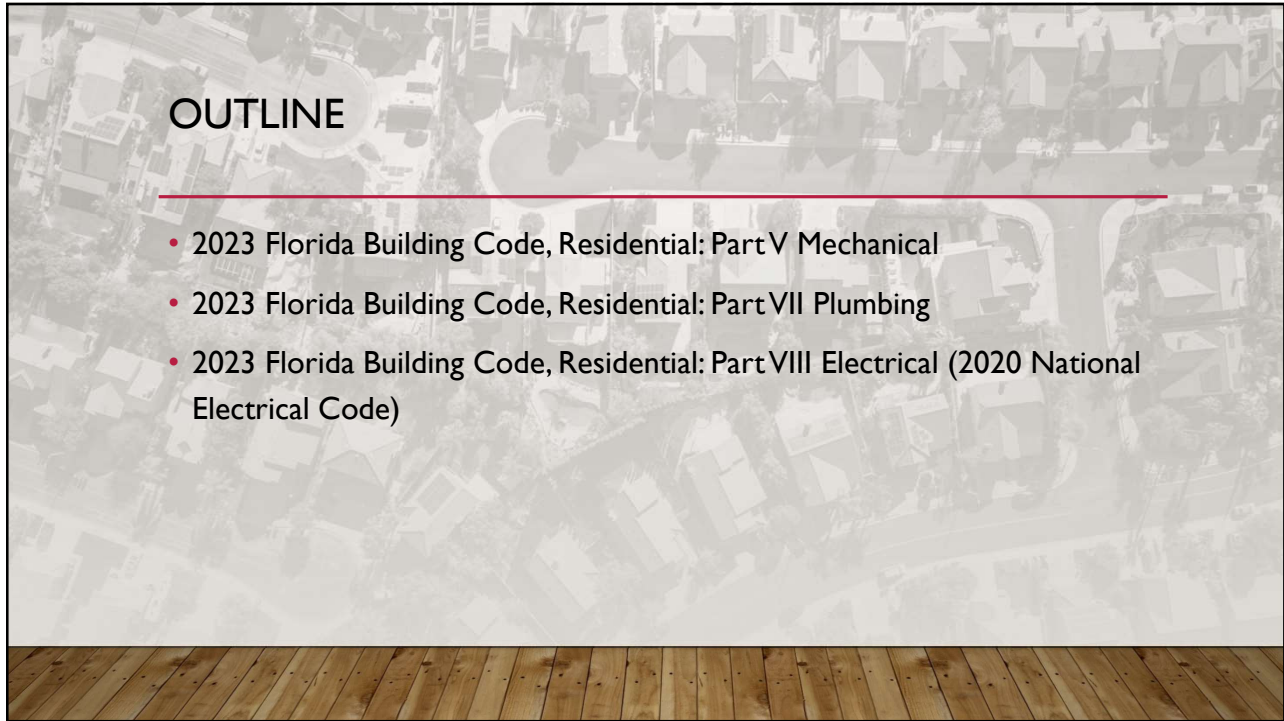
COURSE INFORMATION

Advanced Florida Building Code 2023:
Key Mechanical, Electrical, and Plumbing Changes in Residential Construction | Hour Advanced Credit

Training Provider: Florida Home Builders Association
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CILB & BCAIB Provider # 0000916
FBPE Provider # 0008653

Date: TBD
Location: TBD
CILB Approval # TBD
BCAIB Approval # TBD
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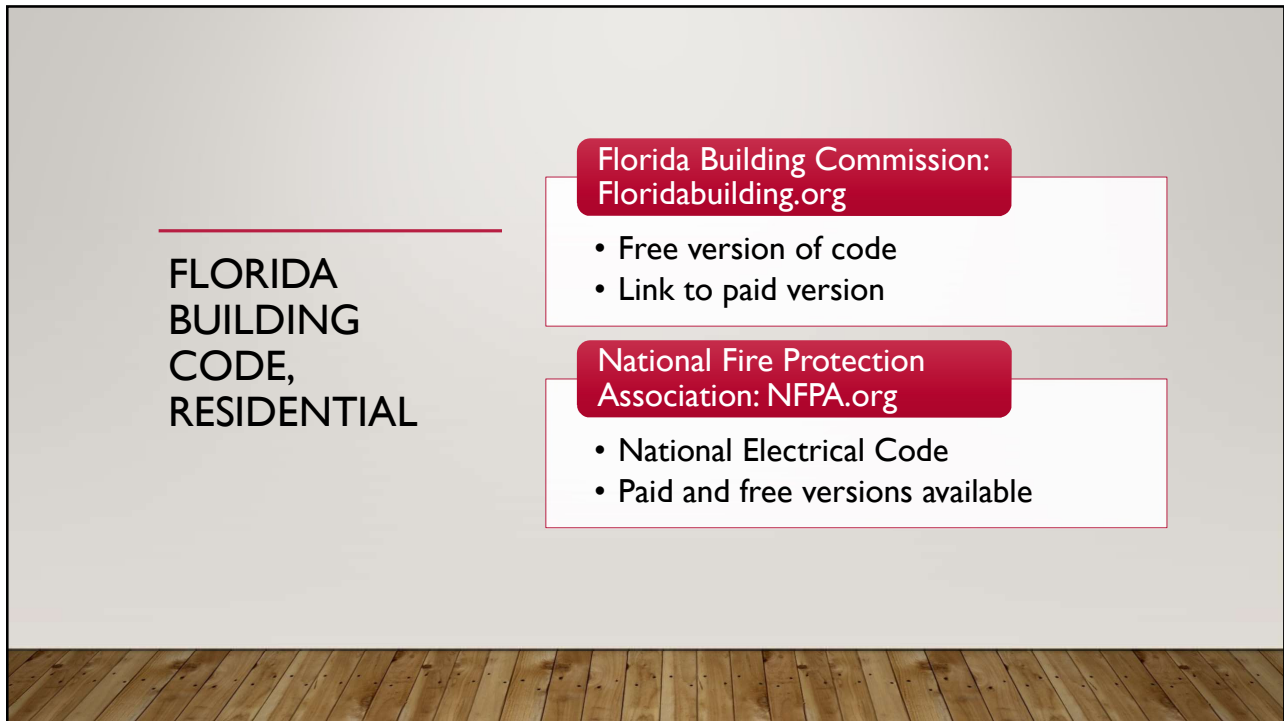
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OUTLINE

- 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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FLORIDA BUILDING CODE, RESIDENTIAL

Florida Building Commission: Floridabuilding.org

- Free version of code
- Link to paid version

National Fire Protection Association: NFPA.org

- National Electrical Code
- Paid and free versions available

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2023 FLORIDA BUILDING CODE, RESIDENTIAL: PART V MECHANICAL

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2023 FBCR: PART V MECHANICAL

- MI307.7 Prohibited Support
 - Gypsum board shall not be used as support under an appliance.

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2023 FBCR: PART V MECHANICAL

- MI411.9 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

- MI502.3 Duct Termination (Clothes Dryer)
 - Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer'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

- MI502.4.8 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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