

City of Prescott 2023 National Electric Code Significant Changes

| CODE SECTION | SCOPE OF CODE CHANGE | CODE CHANGE YEAR | TYPE OF CHANGE TO CODE SECTION | FIELD INSPECTION | NOTES ON PLANS | DETAILS ON PLANS | MISC. NOTES |
|--------------|---|------------------|--------------------------------|------------------|----------------|------------------|-------------|
| | | | | | | | |
| DEF. | NEW - DORMITORY UNIT - A building or space within a building in which group sleeping accommodations are provided for 16 persons (not family) with or without meals, but without individual cooking facilities. | 2020 | NEW | X | | | X |
| DEF. | NEW - 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. | 2020 | NEW | X | | | X |
| 110.22 | NEW - Added label requirements for other than one-and two-family dwelling disconnects to include identification of circuit source that supplies the disconnect. | 2020 | NEW | X | X | | |
| 110.26 | Large equipment clearance requirements changed to include more than one piece of equipment when the combined amperage rating is 1200 or more, or when the combined equipment with exceeds 6 feet. | 2020 | AMENDED | X | | X | |
| 110.26 | Open equipment doors shall not impede access to and egress from the working space. Access or egress is impeded if one or more simultaneously opened equipment doors restrict working space access to be less than 24 inches wide and 6.5 feet high. | 2020 | AMENDED | X | X | X | |
| 110.26(C)(3) | NEW - Egress hardware required on room door(s) less than 25 feet from nearest edge of working space, where equipment with overcurrent devices, switching devices, or control devices is over 800 amps. | 2020 | NEW | X | X | X | |
| 210.8 | Where the minimum appliance cord can reach from a receptacle to a basin (even through doorway) GFCI protection of device is required. | 2020 | AMENDED | X | X | | |
| 210.8(A) | Revised to clarify 12 Dwelling Unit locations that require GFCI protection of all 125 volt through 250volt outlets supplied by single phase branch circuit rated 150volts or less to ground. (This includes 250volt outlets) This revision includes protection of all receptacles within the kitchen even if they don't serve the countertop, bathtub / shower stalls where receptacles are installed within 6 feet of outside edge of tub or stall. | 2020 2023 | AMENDED AMENDED | X | X | | |

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| 210.8(B) | Added and then revised to clarify 15, other than dwelling unit locations, that require GFCI protection of all 125 volt through 250volt, 50 amperes or less outlets supplied by single phase branch circuit rated 150volts or less to ground. (This includes 250 volt outlets) This includes areas of food / beverage prep / cooking, buffet serving areas, outdoors, receptacles within 6 feet of sinks, indoor damp or wet locations, locker rooms with associated shower facilities, garages / accessory buildings / service bays / similar areas, crawlspace below grade, unfinished areas of basement, aquariums / bait wells / similar. | 2020 2023 | NEW AMENDED | X | X | | |
| 210.8(D) | Added and then revised to clarify GFCI protection required on branch circuits rated 150volts or less to ground and 60 amperes or less, single phase that provide power to automotive vacuum machines, water coolers / bottle fill stations, high pressure spray washing machines, tire inflation machines, vending machines, sump pumps, electric ranges, wall mounted ovens, counter mounted cooking units, clothes dryers and microwave ovens. (This includes 250volt outlets) | 2020 2023 | NEW AMENDED | X | X | | |
| 210.8(E) | NEW - Equipment service receptacles for equipment listed in 210.63 shall be GFCI protected. | 2020 | NEW | X | X | | |
| 210.8(F) | NEW article that requires ALL exterior Dwelling Unit outlets (excluding lighting) supplied by single-phase branch circuits rated 150volts or less to ground, 50 amperes or less, be GFCI protected. To include garages with floor located at or below grade, accessory buildings and boathouses. NOTE: HVAC equipment is exempt until September 1st, 2026. | 2020 | NEW | X | X | | |
| 210.11(C)(4) | Clarifies that 15 ampere circuits can now supply Dwelling Unit garage receptacles that are in addition to those required by 210.52(G)(1). | 2020 | AMENDED | X | | | X |
| 210.12(C) | Expanded AFCI protection to cover patient sleeping rooms in nursing homes and limited-care facilities. | 2020 | AMENDED | X | X | | |
| 210.12(D)(3) | Expanded AFCI protection to include sleeping areas of emergency response facilities. | 2023 | AMENDED | X | X | | |
| 210.15 | NEW - Clarifies that GFCI and AFCI devices shall not be reconditioned. | 2020 | NEW | X | | | X |
| 210.17 | Revised to clarify that where hotels, motels, or assisted living facilities are provided with permanent cooking provisions, their branch circuits shall meet the requirements for Dwelling Units. | 2023 | AMENDED | X | X | | |
| 210.23(A) | NEW - Rules added for the limited use of 10 ampere circuits. | 2023 | NEW | X | X | | |

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| 210.52(C) | Clarifies that kitchen counter receptacles cannot serve as required wall receptacles. | 2020 | AMENDED | X | X | | |
| 210.52(C)(2) | NEW - Island / Peninsular receptacles are no longer required to be installed so long as specific provisions are provided for future installation. | 2023 | NEW | X | X | | |
| 210.52(E)(3) | Revised to clarify that balconies, decks, and porches that are within 4 inches horizontally of a dwelling unit shall have at least one receptacle accessible from, and located within 6.5 feet vertically of the balcony, deck or porch. | 2020 | AMENDED | X | X | | |
| 210.65 | Article relocated and verbiage added to address nonrectangular meeting rooms to include floor outlet requirements. | 2020 | AMENDED | X | X | X | |
| 215.10(EX#3) | NEW - Temp power generator feeders can be non-GFCI protected for repair, maintenance, or emergencies for up to 90 days. | 2020 | NEW | X | X | | |
| 215.18 225.42 230.67 | NEW - Surge Protection Devices (SPD's) are now required Dwelling Units, Dormitory Units, Hotel and Motel Guestrooms, sleeping rooms of Nursing Homes and Limited Care Facilities. | 2020 2023 | NEW NEW | X | X | | |
| 220.5(C) | Load calculation requirements revised to include garages and unused / unfinished areas. | 2023 | AMENDED | | X | | |
| 220.57 | NEW - Language added for load calculations to include EV Chargers @ 7200 VA or the nameplate value (whichever is greater). | 2023 | NEW | | X | | |
| 220.70 | NEW - Language added for load calculations of Emergency Management Systems (EMS's). | 2023 | NEW | | X | | |
| 230.67 | NEW – Surge Protection Devices (SPD's) now required for services serving dwelling units (<i>to include replacement service equipment</i>). | 2020 | NEW | X | X | | |
| 230.71 | Revised to clarify that the six allowable disconnects can no longer be mounted within a single enclosure without providing separate compartments for each disconnect. | 2020 | AMENDED | X | X | | |
| 230.85 | NEW - One and Two-Family Dwellings must now have an emergency disconnecting means located in a readily accessible outdoor location that must be labeled to meet the requirements of the article. The disconnect can be the service disconnect, meter disconnect, or other listed switches or circuit breakers. | 2020 | NEW | X | X | | |

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| 240.2 | Reconditioning requirements were added (240.88) and then relocated. Among other items, molded case circuit breakers are no longer allowed to be reconditioned. | 2020 2023 | New AMENDED | X | | | X |
| 240.4(D)(3) | Revised to include 14 AWG Copper-Clad Aluminum wire for 10 Amp circuits with a maximum 8 Amp continuous load. Breakers / fuses must be listed and labeled for use with Copper-Clad Aluminum wire. | 2023 | AMENDED | X | X | | |
| 240.24(E) | Revised to clarify that panels are now not allowed in ANY bathrooms, shower facilities, or locker rooms with shower facilities regardless of building classification type. | 2020 2023 | AMENDED AMENDED | X | X | | |
| 240.88 | Molded case circuit breakers are no longer allowed to be reconditioned. | 2020 2023 | NEW AMENDED | X | | | X |
| 242 | NEW - Article replaces 280 and 285 to cover overvoltage protection and overvoltage protection devices (Surge Protection Devices or SPD's). | 2020 | NEW | | | | X |
| 242.2 | NEW - SPD's cannot be reconditioned. | 2023 | NEW | X | | | X |
| 242.9 | NEW - SPD's must have an indicator to show that they are functioning properly. | 2023 | NEW | X | | | X |
| 250.64(G) | NEW - Grounding Electrode Conductors shall not be installed through ventilation openings of an enclosure. | 2023 | NEW | X | | | X |
| 250.70 | Bonding clamps used to connect GEC to rebar that is to be encased must now be listed for use in concrete. | 2023 | AMENDED | X | | | X |
| 250.148(A) | All equipment grounding conductors in a given splice box are now required to be connected together even when they are from different circuits. | 2023 | AMENDED | X | | | X |
| 300.4(G) | Where bushings are used to protect wire entering enclosures, the bushings must be installed prior to pulling wire. Retrofit / split type bushings are no longer permitted. | 2023 | AMENDED | X | | | X |
| 300.5 | EMT has been added to Table 300.5(A) as an approved underground piping method. | 2023 | AMENDED | X | | | X |
| 300.25 | NEW - Where exit enclosure (stairway) is required to be fire separated from the building, only electrical wiring methods serving equipment permitted by the AHJ in the exit enclosure shall be installed within the exit enclosure. | 2020 | NEW | X | X | | |

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| 312.10 314.5 | Non-manufacturer provided field installed screws entering wiring spaces shall be machine type and/ or blunt ended. Screws shall not extend more than 1/4 inch into the enclosure unless protected by an approved means. Screws within 3/8 inch of the enclosure wall may extend no more than 7/16 inch into the enclosure. | 2023 2023 | AMENDED NEW | X | | | X |
| 314.27(C) | Ceiling mounted boxes in Dwelling Units that are located in areas that are acceptable for ceiling fans must now be listed for fans or installed so as to allow direct access through the box to structural framing capable of supporting a ceiling fan without removing the box. | 2020 | AMENDED | X | X | | |
| 320.80(A) | Where more than two AC cables containing two or more current carrying conductors in each cable are installed without space between them in contact with thermal insulation, caulk, or sealing foam, each conductor shall be derated in accordance with Table 310.15(C)(1). This rule applies to MC cable, NM cable, and SE cable as well and is intended to address heat gain at draftstopped top plates and similar installations. | 2020 | AMENDED | X | X | | |
| 334.30 | NM cable supports within 12 inches of a box are now allowed to have up to 18 inches of cable length (service loop) between the support and the box. | 2020 | AMENDED | X | | | X |
| 352.44(B) | NEW - Expansion fittings are now required on PVC runs that emerge from underground. Required to compensate for earth settling or movement, including frost heave. | 2023 | AMENDED | X | X | | |
| 404.16 | NEW - Limits devices that can be reconditioned. Lighting, dimmer, electronic control switches and molded case switches cannot be reconditioned. | 2023 | NEW | X | | | X |
| 406.5(G)(2) | Revision added to clarify that receptacles in areas under sinks shall not be installed face up. | 2020 2023 | AMENDED AMENDED | X | | | X |
| 406.9(C) | Revised to clarify a zone measured 3 feet horizontally from any outside edge of the tub rim or shower stall threshold from the floor to 8 feet above the tub rim or shower threshold (except where separated by a wall, room door, window, or fixed barrier). Ex. 2 - Where the bathroom is less than the required zone, the required sink receptacle may be installed opposite the tub / shower on the farthest wall within the room. | 2020 2023 | AMENDED AMENDED | X | X | | |

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| 406.12 | Revised to clarify additional areas requiring tamper resistant receptacles. | 2020 2023 | AMENDED AMENDED | X | X | | |
| 408.2 | Revised to clarify that panelboards are not to be reconditioned, but switchboards and switchgear can be reconditioned. | 2023 | AMENDED | X | | | X |
| 408.6 | NEW - Switchboards, switchgear, and panelboards shall have a short-circuit current rating not less than the available fault current. In other than one- and two-family dwelling units, the available fault current and the date the calculation was performed shall be field marked on the enclosure at the point of supply. The marking shall comply with 110.21(B)(3) | 2020 | NEW | X | X | | |
| 408.43 | NEW - Clarifies that panelboards cannot be installed face up. | 2020 | NEW | X | | | X |
| 410.69 | NEW - Switch legs cannot be white or green wire. Can be tapped, painted, or similar to re-identify the wire. | 2020 | NEW | X | | | X |
| 410.116(C) | Revised to clarify recessed lighting fixture must be listed for use in fire resistant construction or installed within a listed luminaire enclosure that is listed for use in fire resistance-rated construction. | 2020 | AMENDED | X | X | X | |
| 410.118 | NEW - Recessed lighting shall not be used to access outlet, pull, or junction boxes or conduit bodies unless the box or conduit body is an integral part of the listed luminaire. | 2020 | NEW | X | | | X |
| 410 Part XVI | NEW - Section added specifically for horticultural lighting requirements. | 2020 | NEW | X | | | X |
| 422.5 | Revised to clarify added equipment requiring GFCI protection. Cord and plug high pressure spray washing machines, sump pumps, and dishwashers were added. | 2020 | AMENDED | X | X | | |
| 420.16(B)(2) | Revised to clarify where trash compactor or dishwasher cords pass through openings in cabinet walls, they must be protected by bushings, grommets, smooth edge or other approved means. | 2020 2023 | AMENDED AMENDED | X | X | | |
| 440.8 | Revised to clarify mini-splits are not to be installed within tub or shower zones. | 2023 | AMENDED | X | X | | |
| 440.9 | Revised to clarify outdoor rooftop HVAC equipment shall have a ground wire with the outdoor portions of metallic piping that uses compression type fittings. | 2020 | AMENDED | X | X | | |

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| 445.19(B) | NEW - For other than one- and two-family dwellings - generators with greater than 15kw ratings shall have remote emergency shutdown to be located outside of the equipment room or generator enclosure at a readily accessible location. Must be labeled Generator Emergency Shutdown. | 2023 | NEW | X | X | | |
| 445.19(C) | NEW - For one- and two-family dwellings - other than cord and plug portable generators, an emergency shutdown device shall be located outside the dwelling unit at a readily accessible location (can be mounted on the exterior of the generator enclosure). Must be labeled Generator Emergency Shutdown. | 2023 | NEW | X | X | | |
| 551.3 | NEW - Section added to address requirements of RV sites located near natural bodies of water. | 2023 | NEW | X | X | | |
| 625.54 | Revised to clarify that <i>ALL</i> receptacles installed for the connection of electric vehicle charging shall have GFCI protection. | 2020 | AMENDED | X | X | | |
| 680 | NEW - The definition of Splash Pad clarifies it as a fountain and therefore the requirements of 680 apply. (GFCI and other requirements) | 2023 | NEW | X | X | | |
| 680.4 | NEW - Allows for the AHJ to require periodic inspections of Swimming Pools, Fountains, and Similar Installations and testing after installation. | 2020 | NEW | X | | | X |
| 680.5 | Revised to clarify that in addition to 210.8 requirements, GFCI protection is required for receptacles and outlets on branch circuits rated 150 volts or less to ground and 60 amp or less single or three phase, and for above 150 to ground (not exceeding 480 volt) single or three phase (regardless of ampere rating). | 2020 2023 | AMENDED AMENDED | X | X | | |
| 680.12(B) | NEW - Pool equipment rooms shall have at least one 125 volt, 15 or 20 amp general purpose receptacle and all receptacles supplied by 150 volt or less to ground within the room, as well as any receptacles supplied by 150 volts or less to ground within a vault or pit, shall be GFCI protected. | 2023 | NEW | X | X | | |
| 680.21(C) | Revised to clarify ALL pool pump motors must be GFCI protected in accordance with 680.5. | 2020 2023 | AMENDED AMENDED | X | X | | |
| 680.21(D) | NEW - Where pool pump motor is repaired or replaced, the motor must be GFCI protected. | 2020 | NEW | X | X | | |

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| 680.22(E) | NEW - Non-pool related equipment must be at least 5 feet from the inside wall of the pool unless separated by a solid fence, wall or other permanent barrier. | 2020 | NEW | X | X | | |
| 690.12(Ex 2) | NEW - Added to clarify equipment and circuits installed on non-enclosed detached structures including parking shade structures, carports, solar trellises and similar structures shall not be required to meet the rapid shut down requirements of 690.12. | 2023 | NEW | X | | | X |
| 690.12(B)(2) | Revised to clarify only two options for controlled limits of rapid shutdown. | 2020 | AMENDED | X | X | | |
| 690.31(B)(1) | Revised to clarify certain scenarios of different system conductors within the same enclosure, cable, or raceway of non-PV or inverter output circuits. | 2020 2023 | AMENDED AMENDED | X | X | | |
| 690.41(B) | Revised to clarify DC ground fault protection required FOR PV DC circuits that exceed 3 outlets or 8 amps. | 2020 | AMENDED | X | X | | |
| 690.56 | Revised to reference 705.10 for labeling requirements of PV source connections. 705.10 has 3 sections to clarify requirements for the denotation of the locations of each power source disconnect, the emergency telephone number of any off-site entities servicing the power source system, and to be marked "CAUTION: MULTIPLE SOURCES OF POWER". There are no more placard style requirements other than the requirements of 110.21(B). | 2020 2023 | AMENDED AMENDED | X | X | | |
| 700.2 702.1 702.2 708.2 | Clarify that reconditioning of transfer switches is not permitted for emergency systems, legally required standby power systems, optional standby power systems, and critical operations power systems. | 2023 | AMENDED | X | | | X |
| 700.5(A) | Revised to clarify that meter mounted transfer switches are not permitted for emergency power system use. | 2020 | AMENDED | X | | | X |
| 700.12(G) | NEW - Clarifies rules for micro-grid systems to include on-site emergency power source can connect to micro-grid systems. | 2020 2023 | NEW NEW | X | | | X |

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| 702.7(A) | Revised to clarify one- and two-family dwelling units are required to have a sign placed at the emergency disconnect means required by 230.85 that indicates the location of permanently installed on-site standby power source disconnect or means to shut down the prime mover as required by 445.19(C). | 2020 | AMENDED | X | X | | |
| 706.4 | Revised to clarify the required nameplate on all Energy storage system (ESS) that must clarify the manufacturer name, rated frequency, and (if AC) number of phases. | 2020 | AMENDED | X | X | | |
| 706.7(A) | NEW – Energy storage system (ESS) repairs and maintenance required per Mfg. must be recorded. In other than one- and two-family swellings, ESSs shall be commissioned upon installation to meet NFPA 855-2020. | 2020 2023 | NEW AMENDED | X | | | X |
| 726 | NEW - Article created for Class 4 Power Systems (aka Fault-Managed Power System or FMPS) in other than dwelling units. | 2023 | NEW | X | X | | X |

