

The following changes in Chapters 1 – 4 of the 2014 National Electrical Code have an impact on electrical installations in general and are likely to be encountered during the inspection process. Review the code text to determine exact requirements. Please note, this is not a comprehensive listing of 2014 code changes.

- A. Grouping of Neutral Conductors, 200.4 (B)**  
*Neutral conductors are to be grouped with their associated ungrounded conductors in every enclosure. The previous code required grouping only where the circuit originated.*
- B. GFCI Protection in Dwelling Units, 210.8 (A) and (D)**
  - 1. Receptacles within six feet of sinks, including kitchens (*including refrigerators*)
  - 2. Receptacles within six feet of tubs and shower stalls (*even in an adjacent room*)
  - 3. Receptacles in laundry areas (*including washing machines*)
  - 4. Dishwasher outlets, 210.8 (D) (*both plug-and-cord and hard-wired connections*)
- C. GFCI Protection in Other than Dwelling Units, 210.8 (B)**
  - 1. Receptacles in garages, service bays, and similar areas
- D. AFCI Protection in Dwelling Units and Dormitories, 210.12 (A)**
  - 1. Requirement for kitchens and laundry areas
  - 2. Requirement for dormitory units
  - 3. Listing of six methods for compliance

*Arc Fault protection is required in all areas except bathrooms, garages, and outdoors.*
- E. Electric Vehicle Charging Circuit, 210.17**  
*An outlet installed for this purpose shall be on an individual branch circuit.*
- F. Receptacle Outlets for Dwelling Unit Balconies, Decks, and Porches, 210.52 (E)(3)**
  - 1. Required when structure is attached to dwelling unit
  - 2. Required when the area is accessible from within the structure
  - 3. Must be accessible from the area, but not necessarily within its perimeter
- G. Receptacle Outlets in Dwelling Unit Garages, 210.52 (G)**
  - 1. Circuit shall not supply outlets outside the garage
  - 2. At least one receptacle outlet must be provided for each car space
- H. Receptacle Outlet for Electrical Service Areas, 210.64**  
*Within 50 feet of equipment; not required for one and two-family dwellings.*
- I. Label Required for Meter Disconnect Switch, 230.82 (3)**  
*When the utility requires a disconnect on the line side of the meter, it must be labeled.*

- J. Connection to Grounding Electrodes, 250.66 (A) and (B)**
1. #6 copper acceptable for multiple rods, pipes, or plates
  2. #4 copper acceptable for multiple concrete-encased electrodes
- K. Grounding Electrode Connections, 250.68 (C)**
1. Metal frame of a building acceptable to interconnect grounding electrodes
  2. Extension of concrete-encased electrode to interconnect grounding electrodes
- L. Table 250.102 (C)**  
*This table was added to show minimum size for grounded conductors, supply-side bonding jumpers, and main bonding jumpers.*
- M. Wet Locations Above Grade, 300.38**  
*The interior of raceways in these areas is a wet location. Conductors installed in raceways in ALL wet locations (including under slabs) must be listed for the purpose, such as type THWN. NM cable is not acceptable to be installed in raceways outside or under slabs.*
- N. Derating for Dwelling Unit Services and Feeders, 310.15 (B)(7)**
1. Table 310.15 (B)(7) removed
  2. Calculation based on 83% of service rating
- Conductor derating is for dwelling unit services of 100 – 400 amps. The conductor must supply the entire dwelling unit. Derating does not apply to “subfeeds” or to residential outbuildings.*
- O. Use of Correct Fasteners for Covers and Canopies, 314.25**  
*This section makes it clear that drywall screws, sheet metal screws, etc. are not permitted for the installation of fixtures, devices, or box covers.*
- P. Switches Controlling Lighting Loads, 404.2 (C)**  
*A grounded circuit conductor is required at wall switch locations subject to the exceptions shown in this section.*
- Q. Field Identification, 408.4 (B)**  
*In other than one and two-family dwellings, equipment must be marked to show where power source originates.*
- R. Grounding of Dry-Type Transformers, 450.10 (A)**
1. Terminal bar must be located inside transformer
  2. Terminal bar shall not be installed over any vented portion of the enclosure