

**NC Department of Insurance
Office of the State Fire Marshal - Engineering Division
1202 Mail Service Center, Raleigh, NC 27699-1202
919-647-0001**

GFCI Receptacles in Commercial Kitchens

Code: 2017 Electrical Code
Section: 210.8(B)(2)

Date: June 12, 2018

Question 1:

For new installations, are ground fault circuit interrupters (GFCI) required for protection of receptacles in commercial kitchens?

Answer 1:

Yes.

In kitchens that are in “other than dwellings”, GFCI protection is required for all receptacles that possess either of the following characteristics:

1. Single-Phase, 0-150 volts to ground, and 0-50 amps
2. Three-Phase, 0-150 volts to ground, and 0-100 amps

Question 2:

If the receptacles that possess the aforementioned characteristics in Answer 1 in commercial kitchens are replaced, will GFCI protection be required for such receptacles when the original Code compliant installation did not possess GFCI protection.

Answer 2:

Yes, unless the exception in section 406.4(D)(3) applies.

Replacement of receptacles must comply with section 406.4(D) of the 2017 NC Electrical Code. Section 406.4(D)(3) requires that replaced receptacles possess GFCI protection where other sections of the electrical code require GFCI protection.