

Company Name: \_\_\_\_\_ Dept: \_\_\_\_\_ Location: \_\_\_\_\_ Date: \_\_\_\_\_

#063

## ELECTRICAL GROUNDING & GROUND-FAULT CIRCUIT-INTERRUPTERS

### Grounding

1. Each receptacle must have a grounding contact that is connected to an equipment grounding conductor §2510.7(a)
2. Temporary wiring must be grounded §2405.2(g)
3. Electrically powered tools and electrical equipment with exposed, non-current-carrying metal parts must be grounded (Exception: Double insulated powered tools need not be grounded) §2395.45(b)
4. The frame of a portable generator and the frame of a vehicle where the generator is located need not be grounded under certain conditions §2395.6
5. A system conductor shall be bonded to the generator frame where the generator is a component of a separately derived system §2395.6(c)

### Ground-Fault Circuit Interrupters (GFCI's)

The GFCI device senses ground faults (accidental electrical paths to ground) in circuits and immediately cuts off all electrical power in that circuit. GFCI's are required on receptacles that are not connected to the site's permanent wiring and that have a rating of 15 or 20 amps, 120V, AC, single phase §2405.4(c)

The Assured Equipment Grounding Conductor Program (AEGC) is an approved alternative to the GFCI requirement if the following program elements are included: (a) A description of the program must be written (b) The employer shall designate one or more qualified persons to implement the program (c) Daily visual inspection of included equipment must be conducted (d) All equipment grounding conductors shall be tested for continuity and shall be electrically continuous; all plugs and receptacles must be tested for proper attachment to the equipment grounding conductor (e) Tests shall be performed before first use of newly acquired equipment, before equipment is returned to service, before equipment is used after an incident that may have caused damage, at intervals not to exceed three months (f) The employer shall not make available or permit the use of equipment that has not met the requirements of §2405.4(d) and (g) A means of identifying tested equipment shall be provided.

Meeting Conducted By:

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Print Name

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Signature

Meeting Attended By:

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Document Filing Reference

Notes & Suggestions