## Assured Equipment Grounding

1. **Purpose**

Provide specific requirements for proper equipment groundingcovering all cord sets, receptacles which are not part of the building or structure & equipment connected by cord & plug which are available for use or used by employees. Ground-fault protection for personnel shall be provided on this equipment by using either ground-fault circuit interrupters or an assured equipment grounding conductor inspection program.

1. **General**

* Ground-fault protection for personnel shall be provided on this equipment by using either ground-fault circuit interrupters or an assured equipment grounding conductor inspection program.
* Supervisors are designated as the competent person responsible for implementing and enforcing the requirements of this program.

1. **Ground-fault circuit interrupters (GFCI)**

* Ground-fault protection will be provided for personnel on construction sites on all 120-volt single phase, 15 and 20 ampere receptacle outlets, which are not a part of the permanent wiring and which are in use by employees.
* Ground fault circuit interrupters will be used when an outlet is near a water source, or when damp or wet conditions exist and portable electrical equipment is being used.
* GFCIs shall be tested periodically to ensure their operability.

1. **Assured Equipment Grounding Conductor Inspection Program**

* Each cord set, attachment cap, plug and receptacle of cord sets, and any equipment connected by cord and plug, except those that are fixed and not exposed to damage, shall be visually inspected before each day's use for external defects and for indication of possible internal damage. Equipment found damaged or defective may not be used until repaired.
* The following tests shall be performed on all cord and plug equipment used in a portable fashion or like equipment that is moved from site to site.
* Double insulated tools, equipment used in connection with ground fault circuit interrupters, or equipment used in a building permanent wiring system are not subject to these testing requirements.

1. **Testing for Continuity**

All tests, other than the visual inspections and periodic testing of the GFCI button, shall be documented and kept on file at the applicable field or plant location. All required tests shall be performed by the user or person responsible for maintaining the equipment:

* Before first use;
* Before equipment is returned to service following repairs;
* Before equipment is used after any incident which can be reasonably suspected to have caused damage (for example, when a cord set is run over);
* At intervals not exceeding three (3) months.
* Tests performed under the Assured Equipment Grounding Conductor Inspection Program must be documented. Test documentation shall identify each item of equipment tested and indicate the last date it was tested.
* Equipment found to be defective may not be used until repaired.