

Section 4 Energy Release Hazards



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4.1.0 Electrical Safety Guidelines

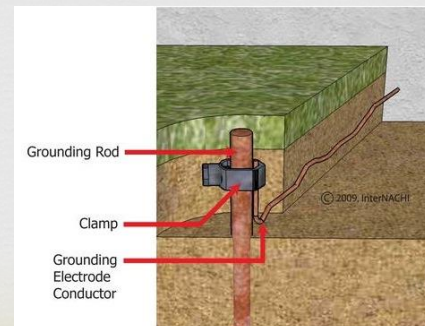
- ⌘ It's for everyone to follow not just electricians.
- ⌘ The major things that can happen to you are: burns, electrical shocks, explosions, falls from electrical shocks, fires.
- ⌘ Not all incidents result in death.



4.1.1 Grounding



- ⌘ A method to protect from electrical shock.
- ⌘ Normally a secondary protective measure.
- ⌘ Grounding yourself allows a low resistance path to the Earth is created.
- ⌘ A three-wire is the most common safety grounding system.
- ⌘ Double insulated tools are used two-wire power cords with no ground pin.



4.1.2 GFCI



- ⌘ Continually matches the amount of current going to an electrical device.
- ⌘ Provides protection from ground faults
- ⌘ Tripping of GFCIS sometimes caused by wet conditions,
- ⌘ GFCIS have a test button to see if it works.



4.1.3 Summary of Electrical Safety Guidelines

- ⌘ All power tools used should be ground fault protected.
- ⌘ Make sure panel, switches, outlets, and plugs are grounded.
- ⌘ NEVER use worn or torn wires.
- ⌘ Never operate any electrical equipment with a danger tag or lockout device.



4.1.4 working near energized electrical equipment



- ❧ No matter you trade you may work near exposed electrical equipment.
- ❧ The distances can be very small or span significant distances due to voltage.
- ❧ One of the most common electrical shock is coming intact with over-head wires with ladders, cranes, or excavating equipment.



4.1.5 If someone is shocked.

- ⌘ You can save a life by taking immediate action.
- ⌘ Best thing to do is shut off power to the circuit
- ⌘ Don't touch the victim when they're in contact with the power source.
- ⌘ Render first-aid if your trained to do so



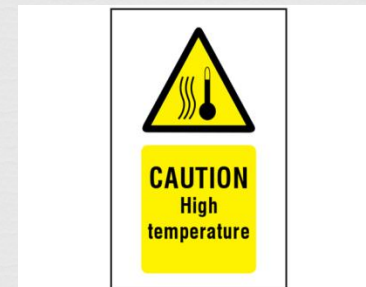
4.2.0 lockout and tag out requirements

- ❧ Even when the hydraulic system is shut off there still could be hydraulic pressure.
- ❧ Typically the tags have the word DANGER with other words printed.
- ❧ In a lockout an energized circuit breaker is turned to the off position and a lock is applied.



4.2.1 pressurized or high-temperate system

- ⌘ Be aware of touching a container of high-temperate fluid can cause burns.
- ⌘ Also if a container pressurized fluid is damaged it may leak or spray dangerous fluids.
- ⌘ Barricades and monitors or both insure safety



RESPECT DEFINITION



- ❧ a feeling of deep admiration for someone or something elicited by their abilities, qualities, or achievements
- ❧ Treat others how you want to be treated.
- ❧ is a feeling of admiration or deference toward a person, child, non-human animal, group, ideal, or indeed almost any entity or concept, as well as specific actions



RESPECT



- ❧ Don't talk back to adults
- ❧ Respect others
- ❧ You have to give respect to earn it

Respect

is something *earned*
not something *given*