

WALSH SAFETY HUDDLE # 37 – GFCI's/ Lock-out - Tag-Out

❖ INTRODUCTION

- Electricity is an essential source of energy for most construction-related operations. Working safely with electricity is possible if you are trained in, understand, and follow some basic rules of thumb.
- Prevention is key - proper measures **MUST** be taken
 - Electrocution can cause serious injury and/or result in death
 - Electricity can ignite fires and cause property damage

❖ PREVENTION

- All those who work on or around energized electrical equipment should be properly trained
- Use ground fault circuit interrupters (GFCI's) on all job sites. **Refer how to ID a GFCI outlet.**
- Plan ahead to insure proper equipment is being used
- OSHA regulation 1926.404 (f)(6) requires that the path to ground from circuits, equipment, and enclosures shall be permanent and continuous: Following visuals of maintained path to ground
 - **Example: Compliant + Non-compliant extension cords** Review jackets and ground prongs, mention stress relief
 - **Non-compliant power hand tool, cracked housing, no ground ECT.**
 - Always use heavy duty grounded extension cords of the three (3) wire type

❖ PREPARATION

- Inspect extension cords/power cords and test GFCI's
 - Make sure ground prongs are intact
 - Make sure jacket is in good condition & no conductors are exposed
 - Make sure all electrical equipment is in satisfactory condition
 - Test GFCI operation periodically
- Inspect all power tools to insure proper grounding
 - Make sure electrical tools are properly grounded or double insulated
 - Always inspect tools and equipment for frayed cords and defective plugs before use
 - Make sure all equipment is in good condition before being put into service
- Properly secure/de-service any faulty equipment

❖ LOCK-OUT/TAG-OUT

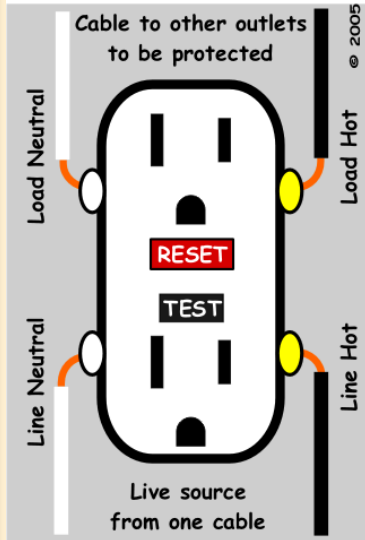
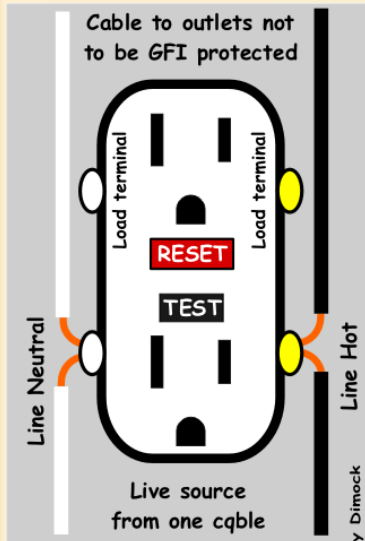
- Electrical power must be isolated from workers when electrical equipment is inspected, serviced, or repaired.
- Equipment is locked out and tagged out before any preventive maintenance or servicing is performed.
- Lockout is used after the equipment reaches "zero" energy and a lock is installed which prevents the power from being turned ON. The lock makes it physically unable to operate without removing the lock.
- Tagout is the process of placing a danger tag on the source of electrical power which indicates that the equipment may not be operated until the danger tag is removed.
 - Tagout has the same importance and purpose as lockout and is used alone only when a lock does not fit the disconnect device. The danger tag shall be attached at the disconnect device with a tag tie or equivalent and shall have space for the worker's name, craft, and other required information.
- A lock-out tag-out is used when:
 - **Servicing electrical equipment that does not require power to be ON to perform the service**
 - **Removing or bypassing a machine guard or other safety device**
 - **The possibility exists of being injured or caught in moving machinery**
 - **Clearing jammed equipment**
 - **The danger exists of being injured if equipment power is turned ON**
- **Any LOTO applications shall be performed by trained personnel, covered by management JHA.**

❖ ELIMINATION

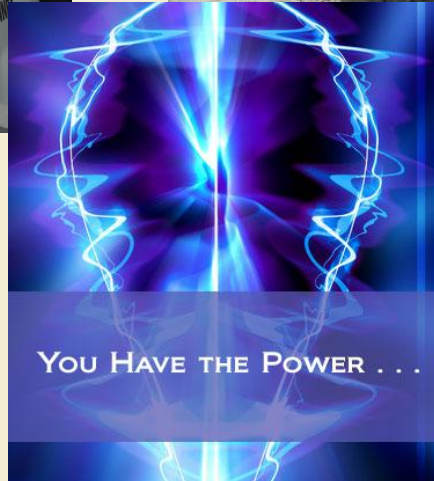
- Electrical hazards cannot be eliminated, but with proper education and engineering, the hazards can be controlled
- Working around electricity does not have to be dangerous if you follow the rules and procedures for working safely with electricity – **AVOID A HAIR RAISING EXPERIENCE**

This training is intended to satisfy portions of 29 CFR 1926.21(b)(2), 1926.400 Subpart K, and 1910.147(c)(7)

LOTO and Assured Grounding

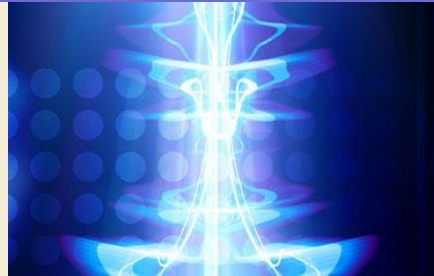


Auto-screed prevention?



YOU HAVE THE POWER . . .

...To Prevent Electrocutions



Lockout Tagout

