

# LOCKOUT/TAGOUT

∞ **THE ULTIMATE GOAL IS:** To implement policies and procedures to prevent, as necessary, the release of hazardous energy from power sources--or from a stored source in machines, equipment or processes.

# WHAT IS LOCKOUT/TAGOUT?

- ⌚ **Lockout** is the placement of a lock device on an energy-isolating device to ensure the equipment cannot be operated during equipment maintenance or repair.
- ⌚ **Tagout** is the placement of a tag device on an energy-isolating device to warn of the danger of operating, and TO NOT start, the equipment until the tag is properly removed.

# Terms and Definitions

- ⌚ **AFFECTED EMPLOYEE:** One whose job requires them to operate/use or be in the area of machinery or equipment on which service/maintenance is being performed.
- ⌚ **AUTHORIZED EMPLOYEE:** One who is responsible for the lockout/tagout of machinery or equipment..

# TERMS AND DEFINITIONS Cont.

- ⌚ **LOCKOUT DEVICE:** A device such as a lock (key or combination) that holds/secures an energy-isolating device, thus preventing an energy source from operating.
- ⌚ **TAGOUT DEVICE:** A prominent warning device, such as a tag with a means of attachment, which can be securely fastened to an energy-isolating device.

# TERMS AND DEFINITIONS Cont.

- ⌚ **CAPABLE OF BEING LOCKED OUT:** An energy- isolating device (switch, lever, etc.) able to be locked out via a hasp or other means, to which a lock can be affixed.
- ⌚ **FULL EMPLOYEE PROTECTION:** When a tagout device is used on an energy-isolating device which is able to be locked out, it **MUST** be attached at the **SAME** location as the LO device would be, **AND** demonstrate equivalent level of safety to the lockout program.



# ENERGY CONTROL PROCEDURES

Ω **MUST BE WRITTEN AND INCLUDE:**

- Scope
- Purpose
- Authorization



# ENERGY CONTROL PROCEDURES

Ω **MUST BE WRITTEN AND INCLUDE:**

- Rules
- Techniques
- Enforcement



# ENERGY CONTROL PROCEDURES Cont.

- ⌚ **Stored energy sources, following the placement of lockout or tagout devices, shall be restrained, disconnected, relieved, and otherwise rendered safe.**

# HAZARDOUS ENERGY SOURCES

Ω **ENERGY SOURCES CAN BE:**

ELECTRICAL

MECHANICAL

PNEUMATIC

HYDRAULIC

# Release from Lockout/Tagout

- ∞ The work area shall be inspected to ensure that nonessential items have been removed and the equipment components are intact.
- ∞ The work area shall be checked to ensure that all employees have been safely positioned or removed.

# Release from Lockout/Tagout Cont.

- ⌚ **Lockout/Tagout devices shall be removed by the employee who placed the device, or under the direction of the employer, if the authorized employee is unavailable.**

# LOCKOUT/TAGOUT-HARDWARE

⌚ Lockout tagout devices shall be provided by the employer and must meet the minimum industry standard.



# EQUIPMENT INSPECTIONS

- ⌚ **The employer shall conduct an annual inspection and certify that the LO/T0 policies and procedures are being complied with.**

# Training & Communication

Ω **The employer must provide training :**

- 1. To all employee's on the current procedures.**
- 2. Whenever LO/TO procedures are used.**
- 3. Whenever there are changes in Job assignments, machinery/equipment, or processes that present any new hazards.**



# **PROGRAM REQUIREMENTS**

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**Your agency should require contractors to have a Lockout/Tagout program that complies with the agency standards.**



# LOCKOUT/TAGOUT

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IT'S A MATTER OF LIFE AND DEATH





NUMBER 18 IS FOR WATER COLUMN ON  
NUMBER 24 IS FOR WATER COLUMN  
NUMBERS 13 AND 15 IS FOR A/C  
SWITCH IS FOR CHEMICAL P  
NO. 25 IS FOR LIGHTS IN C  
NO. 14 IS FOR CHEMICAL PUMP N  
NO. 14 IS FOR SMALL CHEMICAL  
NO. 25 IS FOR LIGHTS IN TANK N

12 DA TANK



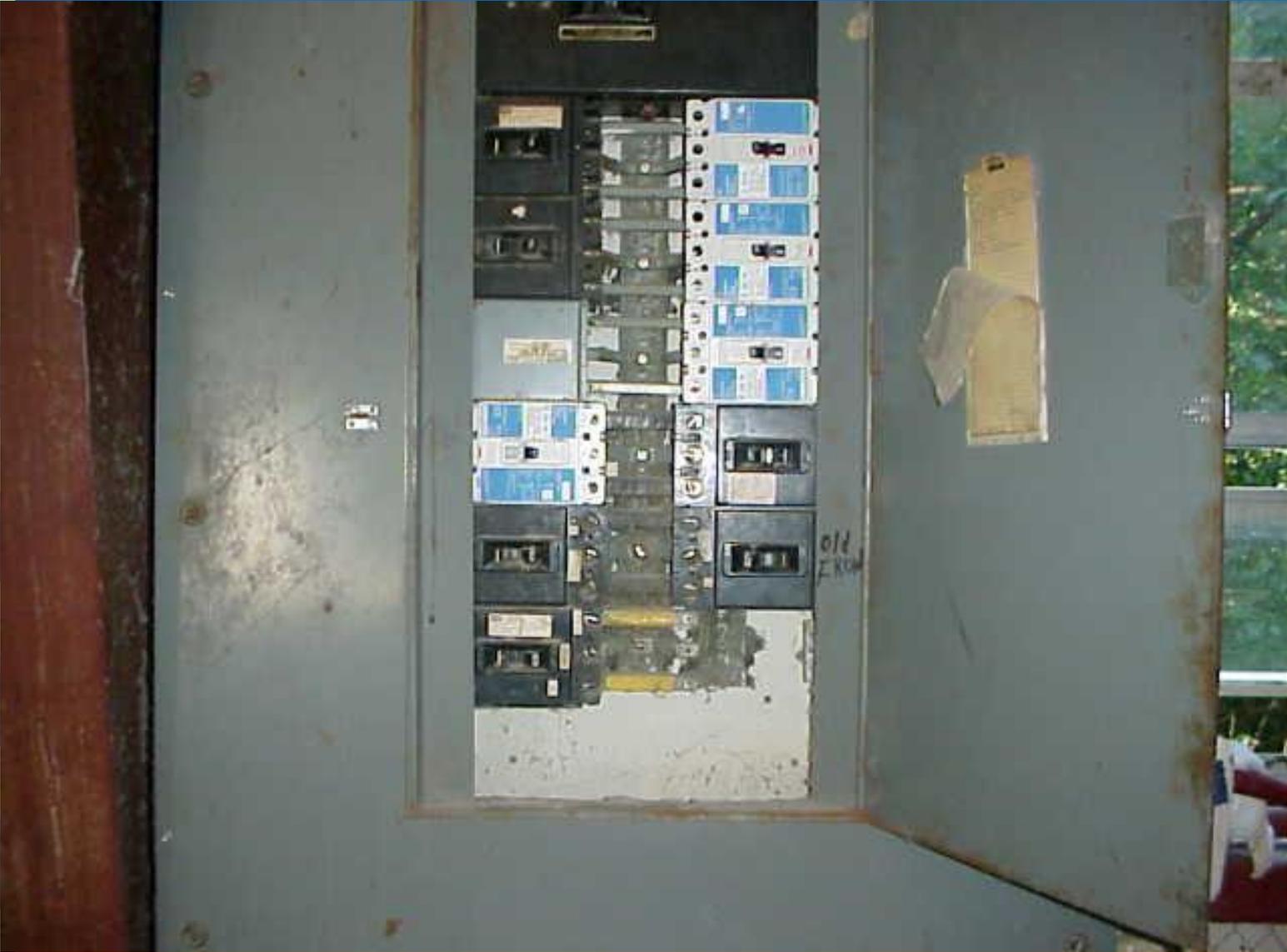


**DANGER**  
HIGH  
VOLTAGE

SUBSTATION  
NDT-L









MCP-L1









# TEST

- 1. Name the four energy sources LO/TO addresses?**
- 2. To use Tagout instead of Lockout, what must be demonstrated?**
- 3. Who may remove a Lockout device?**

# TEST CONT.

- 4. Define “affected person” ?**
- 5. After a Lockout device is installed, what must take place?**
- 6. Must employers conduct an inspection?**

