LOCKOOUT/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

- MUST BE WRITTEN AND INCLUDE:
  - Scope
  - Purpose
  - Authorization

ENERGY CONTROL PROCEDURES

- 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

- 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/TO policies and procedures are being complied with.

Training & Communication

- 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

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

LOCKOUT/TAGOUT

IT'S A MATER OF LIFE AND DEATH


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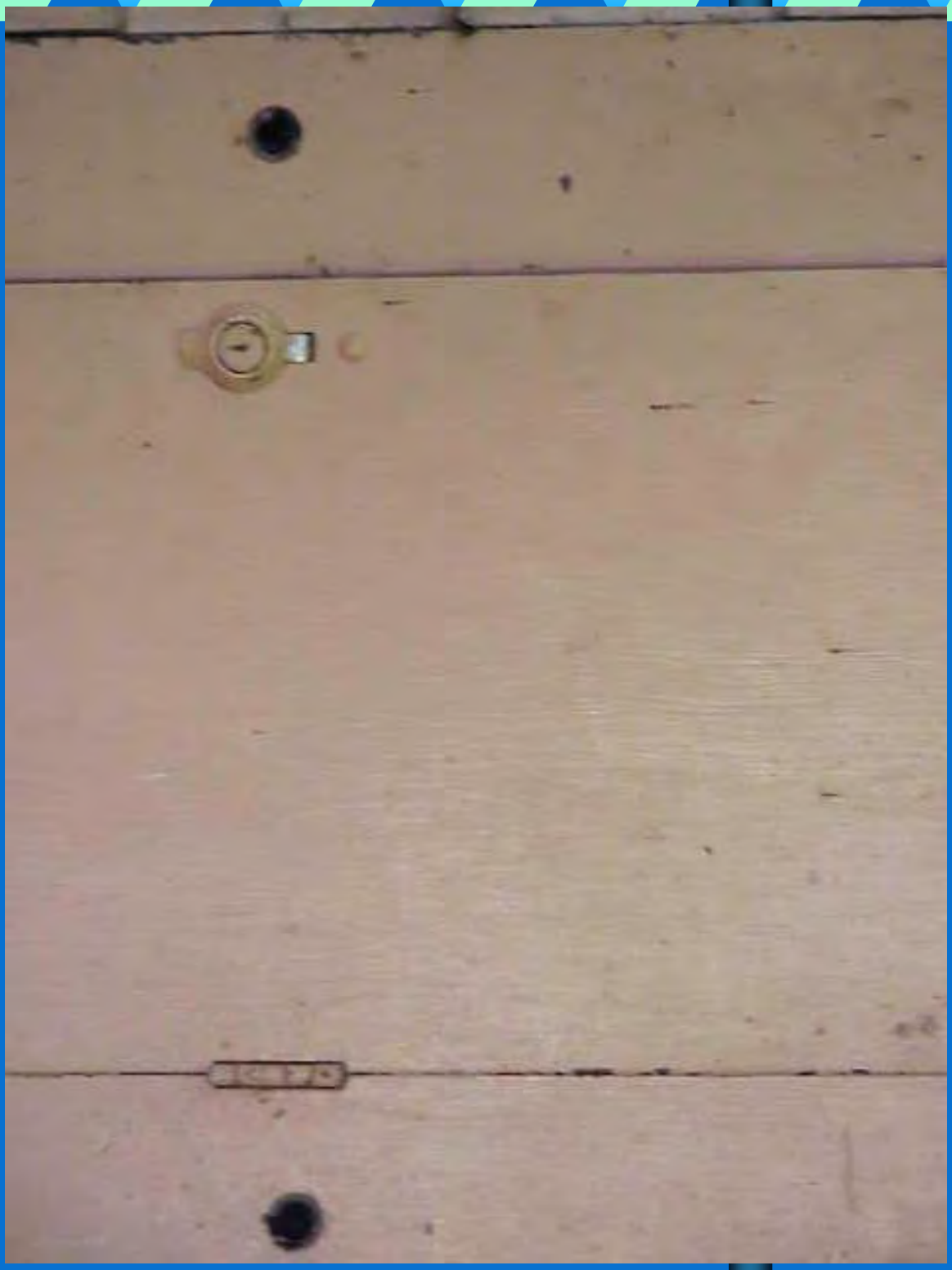


DANGER
HIGH
VOLTAGE
SUBSTATION
NDT-L


MDF-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?