LOCKOUT TAGOUT AFFECTED EMPLOYEES

Control of Hazardous Energy

29 CFR 1910.147

The standard covers the servicing and maintenance of machines and equipment in which the unexpected energization or start up of the machines or equipment, or release of stored energy could cause injury to employees.

Provisions Of The Standard

Requires employers to establish procedures for isolating machines or equipment from their source of energy and affixing appropriate locks or tags to energy isolating devices

Employer Responsibilities

- Establish energy control program
- Establish energy control procedures for machines and equipment
- Provide employee training
- Conduct periodic inspections of the energy control program

Application Of The Standard

An employee is required to remove or bypass a guard or other safety device. An employee is required to place any part of their body in contact with the point of operation of the operational machine or piece of equipment

An employee is required to place any part of their body into a danger zone associated with a machine operating cycle

Definitions

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Authorized employee: A person who locks out or tags out machines or equipment in order to perform servicing or maintenance

Affected employee: A person whose job requires him to operate or use a machine or equipment on which servicing or maintenance is being performed under lockout or tagout

Definitions

Energy isolating device: The mechanism that prevents the transmission or release of energy and to which locks or tags are attached Indudes manually operated circuit breakers, disconnect switches, line valves, blocks, and others

Lockout: The placement of a lockout device on an energy isolating device to ensure that the equipment being controlled cannot be operated until the lockout device is removed

LOTO

Types of energy may include:

Bectrical

Radiation

Thermal

Pneumatic

Hydraulic

Chemical

Stored Energy

De-energizing Equipment

Shut down the machine or equipment Isolate the machine or equipment from the energy sources

Apply the lockout or tagout device(s) to the energy isolating device(s)

Safely release all potentially hazardous stored or residual energy

Verify the isolation of the machine or equipment prior to the start of servicing work

Re-energizing Equipment

Ensure that machine or equipment components are operationally intact
Ensure that all employees are safely positioned or removed from equipment
Ensure that lockout or tagout devices are removed from each energy isolation device by the employ who applied the device

Tag Requirements

Tags must also include a legend such as:

Do not start

Do not open

Do not dose

Do not energize

Do not operate

LOTO Procedures

Basic lockout

An individual places their lock on the energy isolation device

Group lockout

Locks are placed on the energy isolating devices, the keys to those locks are placed in a lock box, and each individual working on a piece of equipment are required to place their lock on the lockbox