



The unexpected start-up or release of stored energy during servicing and/or maintenance of machines and equipment could cause injury.

Establish a program and use procedures for affixing lockout or tagout devices to energy isolating devices.

The established program must consist of:

- An energy control procedure
- Employee training
- Periodic inspections

Disable machine or equipment to prevent unexpected energization, start-up or release of stored energy to prevent injury to employees.

Make sure the machine or equipment is isolated from the energy source and rendered inoperative.

If an energy isolating device is not capable of being locked out, a tagout system must be used.

If an energy isolating device is capable of being locked out, lockout must be used—unless the employer can show that a tagout system provides full employee protection.

When tagout is used on equipment that is capable of being locked out:

- Tags must be attached where lockout devices would be.
- The employer must demonstrate that tagout will provide safety equivalent to lockout.

Equivalent protection requires compliance with tagout provisions and additional measures, such as removal of isolating circuit element and blocking of a controlling switch.

Lockout device must be under exclusive control of authorized employee performing maintenance.

There must be a prohibition related to restarting or reenergizing machines that are locked or tagged out.

Each authorized employee must use a personal lockout/tagout device and remove it when finished/exiting the area.

Training must include:

- Recognition of hazardous energy sources
- Type and magnitude of energy in workplace
- Methods for energy isolation/control
- Purpose and use of the energy control procedure

Periodic inspections of lockout/tagout procedures must be done at least annually:

- Performed by authorized employee.
- Designed to correct deficiencies.
- Lockout: Must review each authorized employee's responsibilities.
- Tagout: Must review each authorized and affected employee's responsibilities and additional training requirements of 1910.147(c)(7)(ii).
- Employer certification of completed inspection required.



Cherie Berry
Commissioner of Labor

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