

# IS SAFETY ONE OF YOUR PRODUCTS?

**Better to Lockout/Tagout Than to Luck Out!** 

# **OSHA**

OSHA's lockout/tagout standard



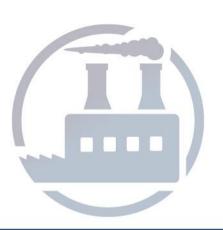
## **Objectives**

- Define what lockout/tagout (LOTO) is and review the key definitions as they pertain to the standard.
- Examine the different types of LOTO devices.
- Discuss what employees can and should do.
- Review the steps involved in the LOTO process.



#### Lockout

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





#### **Provisions of the Standard**

- Requires employers to:
  - Establish procedures for isolating machines or equipment from their source of energy.
  - Create specific steps for the placement, removal, and transfer of lockout devices and the responsibility for them.





## **Lockout Requirements**

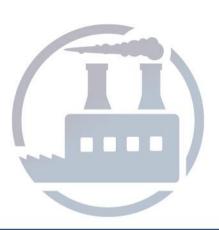
- After January 1990, the following must be designed to accept a lockout device:
  - New machines or equipment are installed
  - Replacement of a machine
  - Major repair of a machine
  - Modification of a machine





### **LOTO Use**

- LOTO shall be used when employees are:
  - Required to remove or bypass a safety device
  - Required to place any part of their body in harm's way
  - Exposed to hazardous energy





## **Group Lockout Devices**



- Used when more than one person is doing maintenance or repair on the same machine or equipment.
- Machinery or equipment can't be started up until all locks are removed.
- Each person places and removes their own lock.

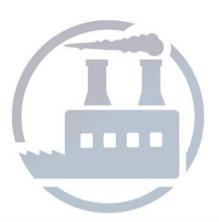
# **Device Requirements**

#### Durable

 Lockout and tagout devices must withstand the environment to which they are exposed for the maximum duration.

#### Standardized

 Lockout and tagout devices must be standardized according to either color, shape, or size.





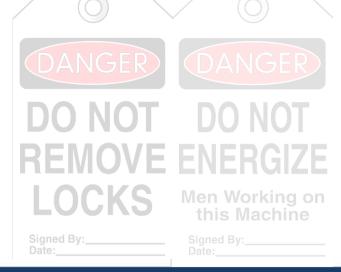




# **Lockout/Tagout Requirements**

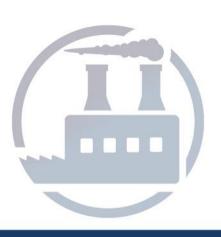
- If an energy isolating device is **not** capable of being locked out, the employer's energy control program shall utilize a tagout system.
- Tagout
  - The placement of a tagout device on an energy isolating device to indicate the equipment being controlled may not be operated until the tagout device is removed.





# **Tag Requirements**

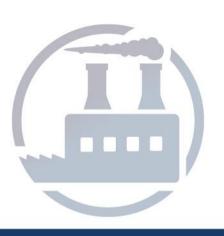
- Tags must also include a legend such as:
  - Do not start.
  - Do not open.
  - Do not close.
  - Do not energize.
  - Do not operate.





# What is Tagout?

- Tags are warning devices only.
  - They don't provide the same level of protection as lockout devices.
  - They can only be removed by an authorized person.
  - They must be legible, securely attached, and resistant to degradation.





#### Authorized employee

 An employee who performs servicing or maintenance on machines and equipment. Lockout or tagout is used by these employees for their own protection.



#### Knowledge needed

 Recognition of energy sources and means necessary for energy isolation and control



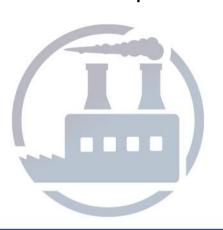


#### Affected employee

 An employee who performs the duties of his or her job in an area in which the energy control procedure is implemented and servicing or maintenance operations are performed



Purpose and use of the energy control procedure







- All other employees
  - Employees who do not perform LOTO nor do they work in an area where LOTO is performed
- Knowledge needed
  - Prohibition relating to attempts to restart or reenergize machines or equipment that are locked out or tagged out





# **Authorized Employee Responsibilities**

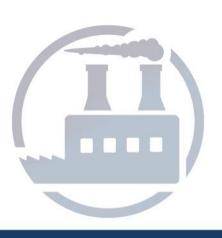




- Repair or service equipment as needed.
- Ensure that all energy sources are locked out.
- Test equipment to verify residual energy is dissipated.
- Place a "Danger—Do Not Operate" tag on equipment.
- Obtain assistance when necessary.
- Remove locks and/or tags following LOTO.
- Coordinate multi-shift repair.

# **Affected Employee Responsibilities**

- Notify maintenance when equipment needs repair or adjustment.
- Leave all LOTO devices in place.
- Verify equipment is safe to operate following LOTO.
- Follow all safety rules while operating the equipment.





## Summary



- Notify maintenance when equipment needs repair or adjustment.
- Leave the maintenance on equipment to authorized employees.
- Leave all LOTO devices in place.
- Follow all safety rules while operating equipment.
- Each and every employee who works on a piece of equipment must have his or her own individual lock on that piece of equipment prior to initiating work.





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