

LOCKOUT / TAGOUT

OSHA 29 CFR 1910.147

- Covers the servicing and/or maintenance of machines or equipment in which the **unexpected** start up or release of stored energy could cause injury or death to employees

WHAT IS LOCKOUT/TAGOUT

- *Referred to as LOTO*
- *Blocks the flow of energy from power source to equipment*
- *Provides means of warning in the form of a tag and permits*

WHY USE LOTO

- *Putting the law aside, we can sum it up very easy. We use machinery to enhance our lives and increase productivity.*
- *These same machines that can do the work of many people in one motion are dangerous and they should be respected.*
- *Simply put “Machines Win – You lose”*



Remember, Machines Win

Advanced Safety

PERSONNEL REQUIRED TRAINING

- *Affected Person- Person using the equipment or in danger area*
- *Authorized Person- Person responsible for placing locks and tags on machinery or processes.*
- *Other- Visitor or Office Personnel*

WHY MUST LOTO BE USED

- *Many fatalities results from failure to use LOTO*
- *In one year there are...*
 - *50,000 serious injuries*
 - *120 fatalities average*



LOTO IS REQUIRED WHEN...

- *It is required to bypass a guard or other safety device*
- *Employees are required to place ANY body part in harms way*
- *Employees are exposed to hazardous energy*

TYPES OF LOCKOUT/TAGOUT SYSTEMS

- *All authorized employees are issued their own locks and key along with tags.*
- *The company uses a central point where locks and tags are issued and tracked by issue.*
- *The one who places a lock is the only one who should remove it as well.*

REQUIREMENTS FOR LOTO DEVICES

- *Durable*
- *Standardized*
- *Substantial*
- *Identifiable*
- *Must be supplied free to employees*

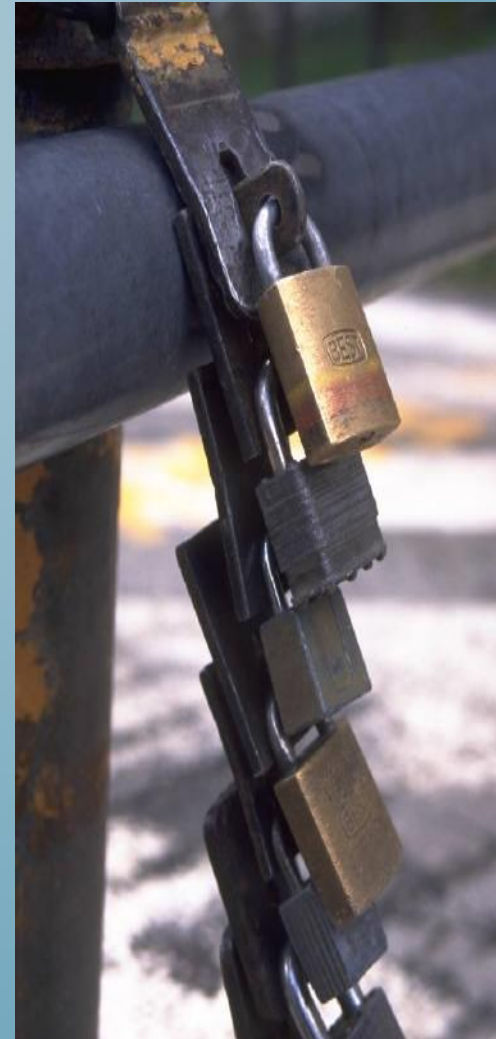


LOCKOUT

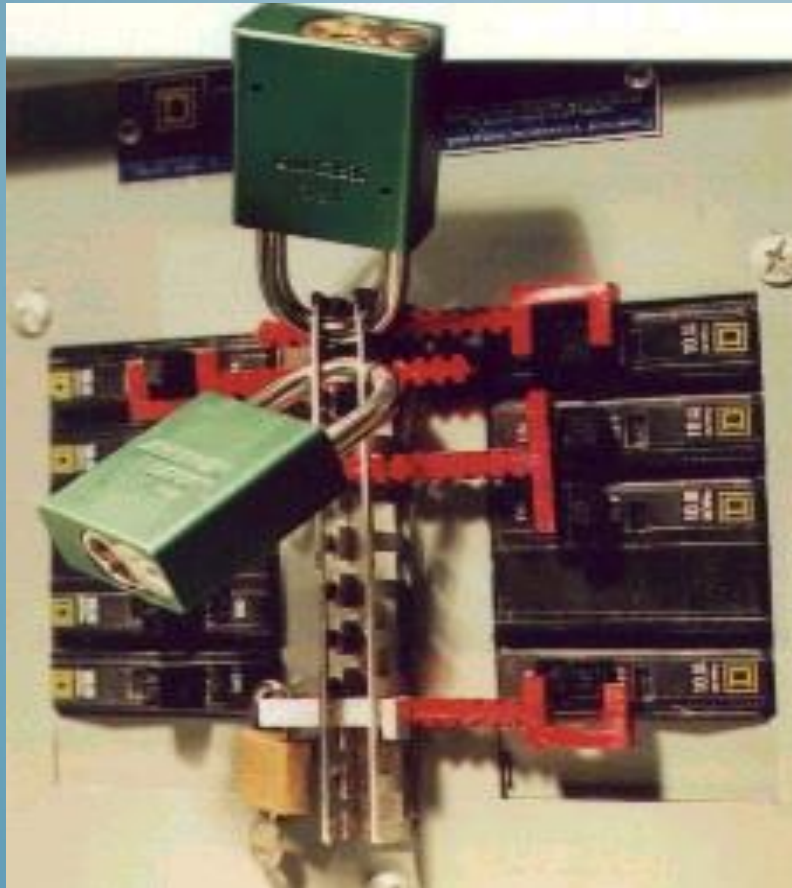
- *Lock or other energy isolating device, to prevent equipment use*
- *Device must be strong enough to prevent removal without excessive force*
- *Lockout device must be easily identified and used for that purpose only*

TYPES OF LOCKOUT DEVICES

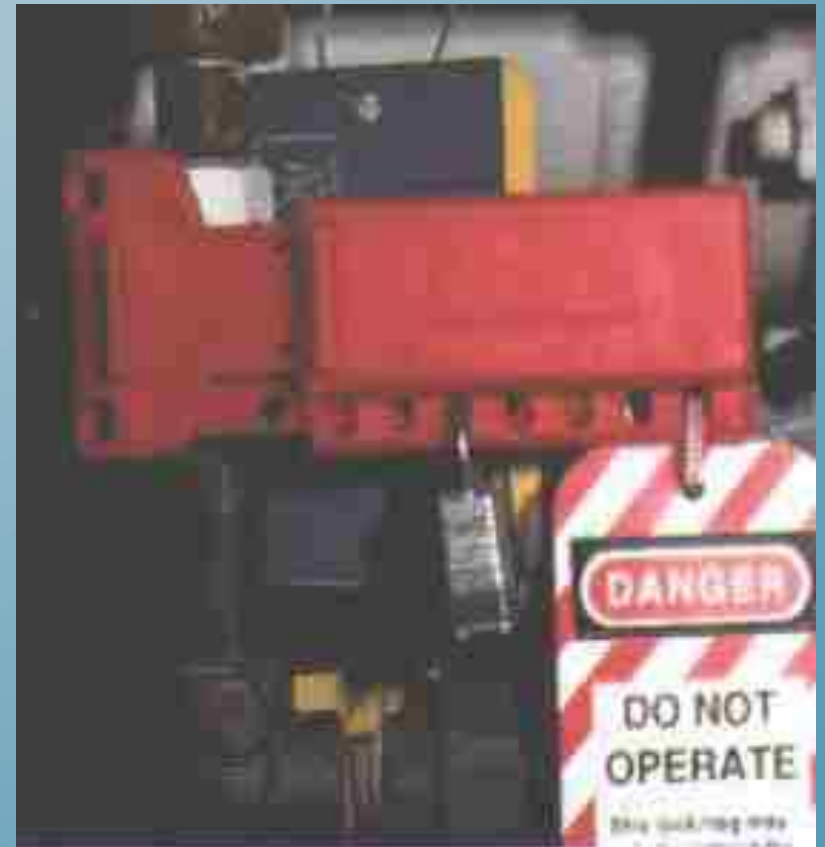
- *Locks*
- *Blocks*
- *Chains*
- *Multi-lock hasps*
- *Wheel & ball valve covers*



LOCKS & MULTI-LOCK HASPS



GATE & BALL VALVE DEVICES



TAGOUT

- *Must provide warning*
 - *Danger, do not operate, do not start*
- *Can only be used alone if a lock & all other avenues have be tried*



TAGOUT

- *To indicate equipment must not be turned on or used*
- *Be able to withstand the environment*
- *Require minimum 50# force to remove*
- *Identify person applying the device*





WARNING
LOCK OUT SWITCHES BEFORE
WORKING ON EQUIPMENT

DANGER

EQUIPMENT
LOCKED OUT BY
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W. Hand
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