

The objective of this talk is to review lockout/tagout policies, to understand how to identify the need for lockout/tagout of equipment and to renew employees' understanding of the reasons for this policy (See ASMG Health & Safety Manual for full LOTO Policy). **The unintended startup of equipment is a leading killer of manufacturing workers.**

Regulatory Requirement: 29CFR1910.147 (OSHA - General Industry Standards)

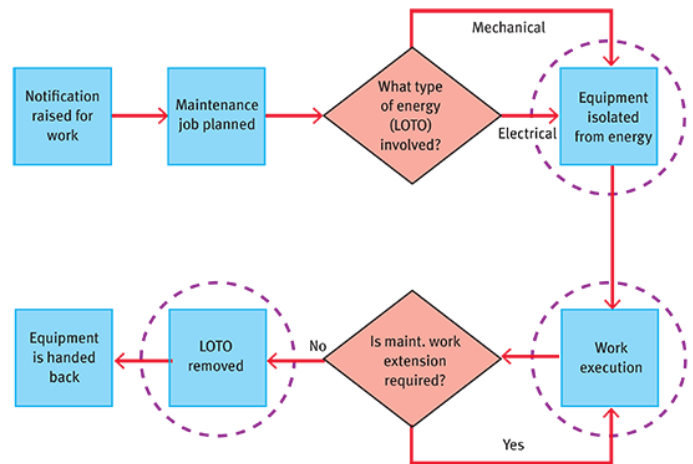
The purpose of the standard is to:

- Protect all employees in the area from unintended startup of equipment.
- Provide a consistent way of isolating and controlling energy sources during service.
- Ensure all workers in the machine area are aware of the hazards of unintended startup.



Types of Energy:

Power Energy	Stored or Residual Energy
<ul style="list-style-type: none"> • Electrical • Hydraulic • Pneumatic • Steam • Thermal • Chemical 	<ul style="list-style-type: none"> • Batteries • Capacitors • Steam Lines & Valves • Flywheels • Gravity • Thermal



Protection Against Hazards

- **Locks:** Used to control switches and isolation devices to prevent startup.
- **Tags:** Used to identify energy sources or isolation devices and warn against startup.

Safety Procedures

- Locks may be used only by trained and authorized personnel.
- No one may repair or service any equipment unless authorized.
- Only the person who placed the lock or tag may remove it unless additional procedures are in place.
- Follow Company lockout/tagout procedures on all jobs--no shortcuts!
- Always check for isolation before beginning work.
- When work overlaps a shift, make sure no laps in isolation occur during shift change.
- Never loan out a lock or use it for an unauthorized purpose.
- Always fill out tags and other warnings completely.

Know what equipment in your work area requires lockout/tagout. Never attempt to start up a piece of equipment that has been locked or tagged out. When in doubt, ask questions of your supervisor!

