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LOTO

In recent days Industrial productions are in abundant quantity due to the demand in market. Due to this demand in workers are not adhering to the safety factors. This is leading to more industrial accidents, loss of life and money. Many industries are having zero accidents as there motto and due to carelessness accidents occur. We choose this topic to enhance the safety in the elevator industry where the potential hazards are more due to sharp materials. A safer operation not only projects the human life but also increases the machine life.

Employees are exposed to hazards on the job each day. These hazards can range from tripping over an electrical cord to exposure to a toxic chemical. Every year in this country, workers die or are permanently disabled because moving parts in machinery or equipment were not blocked or a machine was not completely de-energized before repairs began. Any employee performing service or maintenance on machinery and equipment is exposed to potentially significant injuries from the unexpected start up of the equipment or from the release of stored energy in that equipment.



Historically, the failure to correctly apply Lock Out and Tag Out (LOTO) has been a significant casual factor in serious injuries and occupational fatalities. The purpose of LOTO is to establish workplace design standards and work practices that will prevent employee injuries and other incidents due to the release of uncontrolled energy or unexpected motion of parts or materials in powered machines, tools and equipment.

Machinery and equipment operate because some form of energy provides power. Employees realize that energy is on during normal operations. However, if energy comes on or is released unexpectedly such as during servicing or maintenance activities, employees can suffer serious injury even death. After a machine is turned off, all energy sources must also be turned off and the released to ensure they do not come back on.

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Lock Out/Tag Out refers to specific practices and procedures to safeguard employees from the unexpected startup or release of stored energy of any equipment during service or maintenance activities. If a servicing activity such as lubricating, cleaning, inspecting or un-jamming the production equipment takes place during production; the employee performing the servicing may be subjected to hazards that are not encountered as part of the production operation itself.



Employees engaged in these types of operations are covered by the Lock Out/Tag out standards. The employee must either remove or bypass machine guards or other safety devices, resulting in exposure to hazards at the point of operation.

An employee is required to be in contact with the point of operation of the machine or equipment; or,

An employee is required to work in any area considered dangerous during the normal operating cycle.

In each of these situations, the equipment must be de-energized and locks or tags must be applied to the energy isolation devices.

This procedure establishes the minimum requirements for the lockout of energy isolating devices whenever maintenance or servicing is done on machines or equipment. The unexpected release of energy from devices which may store energy (such as springs, elevated machine members, rotating flywheels, hydraulic systems, air, gas, steam or water pressure etc.) has the potential to cause harm to individuals working on the device. All such devices must be constrained from unexpected releases (locked out) or must be tagged with appropriate warnings (tagged out).

Accident situations:

--- Accidental start up

Equipments can accidentally be turned on and your hands

May be in the point of operation or while you or inside.

--- Electrical shock

You can be accidentally electrocuted if the power is still on or if it is accidentally turned on.

--- Hazardous materials

If released can go into confined areas or the work area.

--- Stored energy

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You could be caught in equipment that can move due to stored energy, even with the power off.

The solution is quite simple--- these accidents can be prevented using the proper lockout procedures.



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