

Webinar Title: LOCKOUT/ TAGOUT (LOTO) FOR CONTROL OF HAZARDOUS ENERGY

Registration Fee (including GST):- Rs 499/- (Rupees Four Hundred Ninety Nine Only) per participant inclusive of GST

Expert Speaker (Name/ Designation) – MR. RAMNISH BEDI , DIRECTOR , KEY TO HSE AND A NATIONAL LEVEL CONSULTANT CUM TRAINER

Webinar Date: 16.05.2021 Duration: 11.00 hours to 12.30 hours (one hour thirty minutes)

About Webinar (Brief One para): -

Lockout tagout (LOTO) is a safety procedure that ensures that dangerous machinery and energy sources are properly shut off and are not started up unexpectedly. Proper lockout/tagout (LOTO) practices and procedures safeguard workers from hazardous energy releases

Lockout/Tagout, or Control of Hazardous Energy is an OSHA regulation implemented to protect maintenance and service workers in the performance of their duties. Energy sources including electrical, mechanical, hydraulic, pneumatic, chemical, thermal, or other sources in machines and equipment can be hazardous to workers. During the servicing and maintenance of machines and equipment, the unexpected start up or release of stored energy can result in serious injury or death to workers.

Maintenance and service workers are exposed to significant hazards when performing their work. To ensure their safety, it is essential that LOTO procedures are developed and followed. It specifically addresses hazards that could injure employees from the unexpected energization or start up of machines or equipment, or when stored energy could be released, while servicing or maintaining equipment. Employees are protected by following the procedures to shut down the machine and ensure that it cannot activate while they are working on it.

Operators must be protected by machine guards that limit worker exposure and provide sufficient protection from hazards during typical operation of the machine. Machine guarding doesn't protect workers who maintain and service the machines though, since their work often requires them to remove the guards and bypass the safety features that protect operators. This is where Lockout /Tagout comes in to play.

All employees who work in an area where energy control procedure(s) are utilized need to be instructed in the purpose and use of the energy control procedure(s), especially prohibition against attempting to restart or reenergize machines or other equipment that are locked or tagged out. All employees who are authorized to lockout machines or equipment and perform the service and maintenance operations need to be trained in recognition of applicable hazardous energy sources

in the workplace, the type and magnitude of energy found in the workplace, and the means and methods of isolating and/or controlling the energy.

The specific actions for applying LOTO will differ from equipment to equipment, and from facility to facility. The general LOTO procedure should follow a basic 6 step process.

1. **Prepare for Shutdown :** Notify affected employees that maintenance will be performed under LOTO. The authorized employee should review the hazards and LOTO procedures for the equipment that will be serviced.
2. **Shutdown Equipment:** The authorized employee will shut down the equipment following company and/or manufacturer's requirements.
3. **Isolate Equipment:** Isolate the equipment from the hazardous energy sources using the equipment specific LOTO procedure.
4. **Place Locks and Tags :**Locks and/or tags should be placed on valves, breakers/electrical disconnects, blank flanges, and any other point called out on the equipment specific LOTO procedure.
5. **Release/Block Stored Energy:**Release stored energy from the stored energy hazards identified in the LOTO procedure, such as releasing springs, blocking elevated parts that could drop, stopping moving parts, draining fluids, venting gases, etc.
6. **Verify Equipment Isolation:** Confirm that workers are clear from the area, locking devices are securely in place, and that the equipment is isolated. Once this is done, attempt a normal start up to confirm that the equipment does not start.

Lockout/Tagout is a part of an Energy Control Program. Every workplace should have an energy control program in place, with LOTO safety being one part of that program. An energy control program includes established procedures for using locks and tags; the locks and tags themselves; training workers on hazards of hazardous energy and lockout/tagout procedures, policies, and equipment; and periodic reviews and inspections of the system (at least annually).

The webinar will focus on explaining the Importance of Lockout/Tagout procedure for control of hazardous energy and discussing steps involved in developing and implementing Lockout/Tagout procedure

Webinar Coverage: -

- **Understanding Lockout/Tagout (LOTO), or Control of Hazardous Energy.**
- **Importance of Lockout/Tagout (LOTO) Safety**
- **Hazards of hazardous energy**
- **Types of hazardous energy**
- **Main causes of Lockout/Tagout -related injuries**
- **Lockout/Tagout devices**
- **How to develop a procedure for Lockout/Tagout (LOTO),**
- **Six basic steps in a general LOTO procedure**
- **Training on LOTO**
- **Lockout/Tagout as part of an Energy Control Program**
- **Lockout/Tagout (LOTO) Standard**
- **Requirements of Lockout/Tagout (LOTO) Standard**
- **Case studies and examples**

Speaker Profile (Brief One Para & Photograph): - Mr. Ramnish Bedi is Director of KEY TO HSE consultancy and training company. He has worked as Corporate Head in reputed companies like Gates India, Schneider Electrical, RICO Auto, Delphi, Federal Mogul, Nestle & Owens Corning. He is having 25 years' of working experience in Manufacturing sector like Automobile, FMCG, engineering, Chemical & Electrical Industries. He is a certified Lead Auditor for ISO 14001: 2015 & ISO:45001: 2018 and ZED Consultant certified by QCI. He is a national level consultant and trainer in the field of quality, health, safety and environment.



Register to learn (Key Learning's' in bullet points):

- **Understanding Lockout/Tagout (LOTO), or Control of Hazardous Energy.**
- **Importance of Lockout/Tagout Procedure**
- **How to develop a procedure for Lockout/Tagout (LOTO),**
- **Six basic steps in a general LOTO procedure**
- **Lockout/Tagout as part of an Energy Control Program**
- **Lockout/Tagout (LOTO) Standard and its requirements**

Date: - 16.05.2021 Duration: 11.00 hours to 12.30 hours (one hour thirty minutes)

Thanks and regards

S.P.Singh

Regional Director

National Productivity Council, Chandigarh

SCO-40, First Floor, Sector 7-C, Chandigarh

Website: www.npcindia.gov.in