



Introduction to Safety – Unit Seven: Lockout / Tagout (LOTO) Safety

Lab 1: Lockout / Tagout

Student Name: _____

Materials Needed:

- Lock out tag out kit including (red tags, locks, isolation devices, zip ties, 110v lockouts)
- PPE as necessary
- Zip tie cutter
- Permanent marker

Description of Topic

- The isolation of potential or real energy sources is a common task performed by all personnel working in the industrial fields. The safe isolation of equipment for maintenance is covered under OSHA guidelines and must be performed by each operator or maintenance personnel.

Objective

- At the completion of this unit the student should fully understand LO/TO and have performed an actual isolation of field equipment in preparation for maintenance or removal.

Safety and PPE usage

- Lock out tag out field exercises should be performed under the watchful eye of a trained safety instructor. Final approval of performance will be evaluated by instructor. All work in lab must be done safely and according to OSHA standards.

Warnings

- The safe isolation of electrical equipment will involve securing an electrical breaker, field switch and/or an electrical disconnect (knife switch). This activity must be done according to the instructor's direction.

Lab A

- After attending lecture on lockout/tagout or completing the reading assignment, and getting permission from instructor, the student should obtain a LO/TO kit and be assigned a live piece of equipment that is installed in the field. Student should then:
 - Size up the job and identify all of the potential energy sources.





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US DOL SPONSORED TAACCCT GRANT: TC23767
PRIMARY DEVELOPER: Jim Martini – Henry Ford College

RELEASE DATE 3/18/2016
VERSION v 001
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- Develop a plan of how to isolate using the 2 + system.
- Once permission is obtained from instructor, go ahead and perform the lo/to procedure and attach all isolation devices and red tags.
- Once completed, one should try to “defeat” the job in order to check for completeness and accuracy.
- Once instructor approval is obtained, student can then remove all lo/to devices and return the system to service.
- All lo/to devices should be stored in their proper areas and any PPE gear used should be properly taken care of.





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