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| **Topic:** Lock out/Tag out | **Sub Topic:** Machine Guarding |
| **Duration:** 1 Hour | **Resources:** [**LOTO Fact Sheet**](https://www.osha.gov/sites/default/files/publications/factsheet-lockout-tagout.pdf)**,** [**Machine Guarding**](https://www.osha.gov/machine-guarding)[**Control of Hazardous Energy**](https://www.osha.gov/control-hazardous-energy) |
| **Equipment:*** PPE
* LOTO locks, tags
 | **Videos:** [**Panduit LOTO**](https://youtu.be/smOwQtcgdWA)[**Big 5 Mistakes**](https://youtu.be/X4BbgwVJZYA)  |
| **Topic Description:**This lecture covers lock out tag out (LOTO) safety.  Special emphasis will be placed on engineering controls, work practice controls and inspections.**Learning Outcomes:**Upon successful completion of this lecture, students will be able to:* Determine the Scope and Application of Standard 1910.147.
* Identify the elements of an effective Lockout/Tagout program.
* Review the employee role and responsibilities in an effective Lockout/Tagout program.
* Relate aspects of machine guarding requirements to LOTO program requirements.

**Activity:**Step 1         Students partner in groups of 2-4 to watch video Big 5 Machine Guarding MistakesStep 2    Students identify primary methods of guarding for machines/tools they have operated.Step 3         Student groups to associate a seven common accident cause to a big 5 machine guarding mistake.Step 4         Have students share thoughts on how the method of guarding impacts the potential for injury. |