

LOCKOUT/TAGOUT (LOTO) – TEST A

EMPLOYEE NAME _____ DATE: _____

This is an “Open Book” test. You should refer to the Lockout-Tagout safety information available on the Safety Webpage.

Select the choice that best answers each of the following questions.

20 Questions (6 pages)

Passing Score: 70% (14 or more correct; up to 6 incorrect allowed)

1. True or False? After following proper LOTO procedures to shut down a machine it could still unexpectedly start up, release stored energy, move or cycle.
 - A. True
 - B. False

2. Workers performing maintenance activities on a machine or equipment are at risk from hazards such as _____.
 - A. Crushing injuries, amputations or even fatality
 - B. Electrocutation
 - C. Contact or burn injuries from hot or sharp surfaces or chemical exposure from “breaking” open a pipe
 - D. All of the above

3. True or False? The ultimate method of lock out to make the machine/equipment safe is to turn it to the “Off” position and tag it.
 - A. True
 - B. False

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4. True or False? You do not have to lock out and/or tag out equipment when cleaning, repairing, servicing, setting-up, adjusting, un-jamming or other work activities on energized equipment, as long as you use alternative measures that provide effective protection such as extension tools (extended swabs, brushes, scrapers), specially designed tools, remote devices (lubricators), interlocked gates and barriers, local disconnects or control switches which are under the exclusive control of the employee performing the work activity.
 - A. True
 - B. False

5. A LOTO procedure has to be more than “generic;” they must be machine- or equipment-specific which include:
 - A. Steps to shut down, isolate, block and secure the machine/equipment
 - B. Steps designating the safe placement, removal and transfer of LOTO devices and who has this responsibility
 - C. Requirements for testing to determine and verify the LOTO devices and energy-control measures were successfully implemented prior to conducting maintenance
 - D. All of the Above

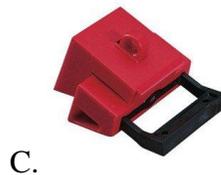
6. True or False? A common mistake in applying LOTO devices is to only identify the main (electrical) power source when the machine/equipment has other hazardous energies that also need to be locked and tagged out.
 - A. True
 - B. False

7. What type of hazardous energy is created by a machine’s moving parts such as wheels, springs, or elevated parts?
 - A. Mechanical
 - B. Hydraulic
 - C. Pneumatic
 - D. Chemical

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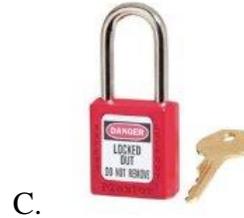
8. What type of hazardous energy is created by pressurized moving liquids such as water or oil in accumulators or lines?
- A. Mechanical
 - B. Hydraulic
 - C. Pneumatic
 - D. Chemical
9. What type of hazardous energy is created by pressurized moving gas as found in tanks and lines?
- A. Stored
 - B. Thermal
 - C. Pneumatic
 - D. Chemical
10. What type of hazardous energy is found in batteries and capacitors?
- A. Stored
 - B. Thermal
 - C. Pneumatic
 - D. Chemical

11. Which of the following LOTO devices is best for safing a circuit breaker?



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12. Which of the following LOTO devices is best for safing a ball valve?



13. How are you to de-energize steam, air and hydraulic lines?

- A. Secure with blocks, special brackets or stands
- B. By bleeding, draining and cleaning out
- C. By blinding (covered with a metal disk) to ensure no substance passes
- D. By safely discharging

14. How are you to de-energize electrical circuits?

- A. Secure with blocks, special brackets or stands
- B. After shutting off valve, bleed, drain and clean out
- C. After turning off, check using proper and calibrated test equipment
- D. After turning off, safely discharge by touching a screw driver to both poles

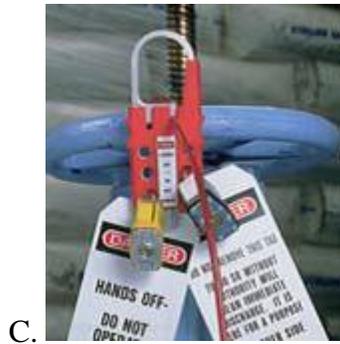
15. Verifying the lockout means that after turning off the machine/equipment and installing the LOTO devices you _____.

- A. Attempt to operate (turn on) the machine/equipment using its normal controls
- B. Visually double check that the controls for the machine/equipment are in the “off” or de-energized position
- C. That workers in the area who are not involved in the maintenance, such as an equipment operator, are informed that lockout and tagout are in progress
- D. All of the Above

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16. True or False? When there are two or more employees performing maintenance on a machine/equipment, each employee places his/her own locks and tags on each isolation device then turns all keys into a designated primary authorized employee for duration of the work.
- A. True
 - B. False

17. Which of the following is a group lockout?



D. All of the Above

18. The only person(s) other than the worker who installed a lock who is authorized to remove it is _____.
- A. Only the worker who installed the lock
 - B. The worker's supervisor if the worker is not available and work needs to proceed
 - C. A Safety Officer
 - D. All of the Above

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19. The purpose of installing a Tagout tag is to _____.
- A. Provide direction for others to not operate the equipment/machine while it is being maintained
 - B. Identify who is working on the equipment/machine that is locked out and provide contact information
 - C. Provide an expected completion date and time for the equipment maintenance lockout
 - D. All of the Above
20. Who is ultimately responsible for properly installing LOTO devices?
- A. You, the one performing servicing or maintenance of the equipment/machine
 - B. Your supervisor
 - C. A Safety Officer / SC LLR OSHA
 - D. All of the Above

REMINDER: Turn this completed test into the Safety Office for grading and to receive credit for the course. Safety will inform you of your test results.