

Virtual Reality Hazard Awareness

Module 5: Electrocution

Activities

1. Ensure all switch gear has been properly _____ and tagged by all the different _____ that are working on that specific piece of _____.
2. An example of equipment that could have _____ trades working on it is a _____.
3. All workers should have their personal _____ attached to the _____ that they are currently working on.
4. You should only be locked out of the equipment that you are _____ working on.
5. Locking out prevents _____ caused by _____ equipment or energized equipment while they are being worked on.
6. You must always _____ your lock when done working on the equipment for the _____ or when the job is _____.
7. Workers should be _____ and not impaired by _____, sickness, or for any other _____.
8. Insulated tools and personal _____ wear should always be in 100% _____.
9. Always inspect _____ and tools for wear and tear, defects and damage before every _____ assignment.
10. Only completed _____ and trained electricians familiar with the work assignment shall be _____ to work on live _____ or equipment.

11. Personal _____ is used including _____ tools.
12. When working in extremely _____ electrical situation, there should be ____ or more people with at least one posted as a _____ watch.
13. Refer to rule _____ in the Canadian Electrical Code for information regarding _____ and arc _____ protection.
14. Always ensure you are using your PPE when on the _____.
_____.
15. Never mix water with _____. Wearing wet _____ can cause a _____.

Extra Credits

Electrical Current:

There are three types of electrical hazards:

1. Electrical shock (this is the most common)
2. Electrical burns
3. Effects of blasts which includes pressure impact, flying particles

Workers who do not work directly with electricity are still at risk of electrical hazards.

Electrical hazards may be encountered by non- electrical workers:

- Welders
- Heavy equipment operators
- Excavators
- Warehouse workers
- Painters

There are many hazards non- electrical workers may experience, including:

- Power tools

- Extension cords
- Mold case circuit breakers
- Downed power lines
- Ladders
- Portable generators, battery banks, battery chargers

Teacher Led Activity

A trade is assigned to each group of 3-4. Read about the possible electrical hazards of that trade and present your findings to the larger group.

- When is arc flash or shock caused?
- What advice would you give to workers who are near live circuits or equipment?
- What are dangers associated with electricity.