



# ELECTRICAL SAFETY

OSBT SP-013-00

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EMPLOYEE EDUCATION 2019

# ELECTRICAL SAFETY

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- The Electrical Safety program is designed to prevent electrically related injuries and property damage.
- Electricity has long been recognized as a serious workplace hazard, exposing employees to such dangers as electric shock, electrocution, fires and explosions.

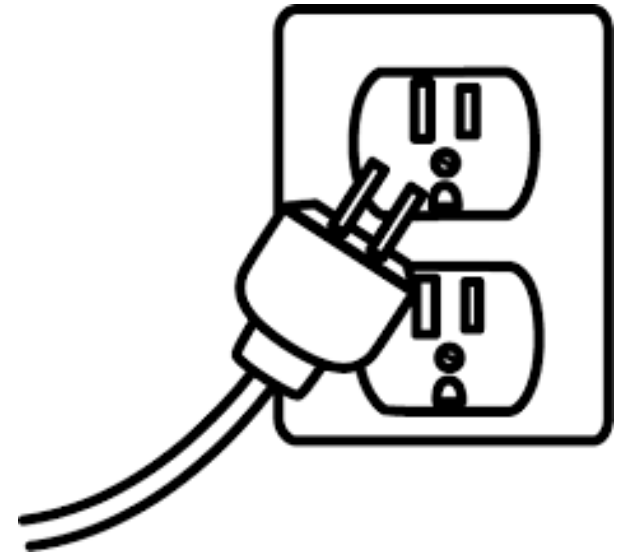


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## Employees:

- Report electrical deficiencies immediately.
- Do not work on electrical equipment unless authorized and trained.
- Properly inspect all electrical equipment prior to use.



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- Employees working in areas where the potential contact with exposed electrical sources is present and likely, will be provided and shall use Personal Protective Equipment (PPE).
- The following rules apply to the use and care of PPE:
  - PPE shall be used where contact with exposed electrical sources are present and likely.
  - PPE shall be designed for the work being performed and environment in which it is used.
  - PPE shall be visually inspected and/or tested before use. Any defects or damage shall be replaced, repaired or discarded.

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- In cases where the insulating capabilities of the PPE may be damaged during the work, a protective outer cover, such as leather, must be used.
- Employees shall wear non-conductive head protection wherever there is a danger of injury from electrical burns or shock from contact with exposed energized parts.
- Employees shall wear protective eye/face equipment whenever there is a danger from electrical arcs or flashes or from flying objects resulting from an electrical explosion.

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## **ENGINEERING CONTROLS:**

- All electrical distribution panels, breakers, disconnects, switches, junction boxes shall be completely enclosed
- Water tight enclosure shall be used where there is possibility of moisture entry either from operations or weather exposure
- Electrical distribution areas will be guarded against accidental damage by locating in specifically designed rooms, use of substantial guard posts and rails and other structural means
- A clear approach and 3 foot side clearance shall be maintained for all distribution panels.
- All conduit shall be fully supported throughout it's length. A non-electrical attachment to conduit is prohibited.
- All non-rigid cords shall be provided strain relief where necessary.

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## ADMINISTRATIVE CONTROLS:

- Only trained and authorized employees may conduct repairs to electrical equipment.
- All qualified employees will follow established electrical safety procedures and precautions.
- All electrical control devices shall be properly labeled.
- Work on energized circuits is prohibited unless specifically authorized by senior facility management.



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## **PPE:**

- Qualified employees will wear electrically rated safety shoes/boots.
- All tools used for electrical work shall be properly insulated.
- Electrical rated gloves shall be available for work on electrical equipment.
- Electrically rated matting will be installed in front of all distribution panels in electric utility rooms





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- **Electrical Safety Rules for Non-Qualified Workers**

- Do not conduct any repairs to electrical equipment.
- Report all electrical deficiencies to your supervisor.
- Do not operate equipment if you suspect an electrical problem.
- Water and electricity do not mix.
- Even low voltages can kill or injure you.
- Do not use cords or plugs if the ground prong is missing.
- Do not overload electrical receptacles.
- Do not use portable heaters within 3' of combustible items.
- Do not use extension cords as a permanent daily solution.
  - Extension cords are a temporary solution

# Thank You!

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Thank you for completing Electrical Safety!  
Complete the [Electrical Safety quiz](#) to receive credit for this module.

Have questions?

Contact [HSSE@osbt.com](mailto:HSSE@osbt.com)