



## **Title: Electrical Awareness in Construction**

**Objective:** To increase awareness of electrical hazards in construction and promote safe practices to prevent accidents and injuries.

**Introduction:** Electricity is a vital power source in construction, but it also poses significant hazards if not handled properly. By understanding the risks associated with electricity and adopting safe work practices, we can ensure a safe working environment for everyone on the construction site.

### **Key Points:**

1. **Identification of Hazards:** Be aware of electrical hazards on the construction site, including exposed wires, overhead power lines, and damaged electrical equipment. Report any hazards immediately to a supervisor.
2. **Safe Distance:** Maintain a safe distance from electrical sources, including overhead power lines and electrical panels. Keep equipment and materials away from power lines to prevent accidental contact.
3. **Personal Protective Equipment (PPE):** Wear appropriate PPE, including insulated gloves, safety glasses, and non-conductive footwear when working near electrical hazards. Ensure PPE is in good condition and properly fitted.
4. **Lockout/Tagout Procedures:** Follow lockout/tagout procedures when working on or near electrical equipment to prevent accidental energization. Never assume equipment is de-energized; always verify before starting work.
5. **Ground Fault Circuit Interrupters (GFCIs):** Use GFCIs to protect against electric shock in areas where water or dampness is present, such as outdoor work sites or wet conditions. Test GFCIs regularly to ensure they are functioning correctly.
6. **Tool Safety:** Inspect power tools and cords for damage before use, and replace or repair any damaged equipment immediately. Use tools with double-insulated or grounded cords for added safety.
7. **Overhead Power Lines:** Be cautious when working near overhead power lines, and maintain a safe distance as specified by regulations. Use caution tape or barriers to prevent accidental contact by cranes, ladders, or other equipment.
8. **Training and Awareness:** Ensure all workers receive training on electrical safety procedures and hazards specific to the construction site. Regularly review safety protocols and update workers on any changes or new risks.

**Conclusion:** Electrical hazards are a significant concern in construction, but by following safety procedures and maintaining awareness, we can minimize the risk of accidents and injuries. Prioritize safety at all times to protect yourself and your colleagues.

### **Discussion Questions:**

1. What are some common electrical hazards found on construction sites?
2. How can you determine if a piece of equipment is energized or de-energized?
3. Why is it important to maintain a safe distance from overhead power lines?

**Stay Safe and Stay Aware!**