



**Electrical Safety Precautions**

# ⚡ Temporary Power Safety

The Occupational Health and Safety Administration (OSHA) states that **contact with electricity** is one of the leading causes of **construction workplace fatalities**. However, temporary power is essential to construction worksites and poses a great risk to workers. Follow these steps to **ensure proper safety procedures are met** when working with or around temporary power.



## Setup



Temporary wiring should be designed and installed according to **OSHA, NEC, and NFPA 70E** requirements.



Temporary power must be installed by a **qualified electrician**.



Temporary power equipment should be located on a worksite **protected from vehicle traffic**, accessible only to **authorized persons**, and suitable for the **environmental conditions** that may be present.



**Calculate the electrical load demand** to ensure the temporary power has the capacity to supply all connected loads.



Ensure all unused openings are **covered or closed** to afford protection substantially equivalent to the wall of the equipment.

## Use



Inspect cords and wiring to ensure there is no **damage or alterations**.



Temporary wiring must be maintained in a **safe code-compliant manner**.



Ensure all equipment, receptacles, and flexible cords and cables are **properly grounded**.



Unused panelboard, disconnect, and breaker openings **must be effectively closed** to prevent any foreign objects from getting inside.



Establish a **timeframe** of when temporary power will be removed or switched over to permanent power.



Use equipment **rated for the environment** (indoor or outdoor) where supplied by temporary power.



**GFCI protection is required** for all 125-volt, 15-, 20-, and 30-ampere receptacle outlets. **Listed cord sets** or devices incorporating **listed GFCI protection for portable use** is permitted. Other receptacle outlets shall be GFCI protected or be included in an assured equipment grounding conductor program.



**Test GFCIs monthly.**



Keep a **test and maintenance log** of the equipment and cord sets being used.



Always **disconnect power and lockout/tagout** when maintaining, repairing, extending, or re-routing temporary power.

## Removal

Temporary power **must be removed** when the project is completed. Temporary wiring is only allowed for:



Construction, remodeling, maintenance, repair, or demolition of buildings, structures, or equipment — or similar activities.



Emergencies, tests, experiments, and developmental work.



Temporary wiring must be removed immediately upon completion of construction or the purpose for which it was installed.



**Maintain circuit directories** to ensure worker safety.

**Please share this free resource to save lives.**