



07. ELECTRICAL SAFETY

RESPECT ELECTRICITY – IT CAN'T BE SEEN, BUT IT CAN KILL.

WHY THIS MATTERS

Electricity is a powerful and essential part of our work. When misused or not respected, it can cause severe injury, burns, or death, and also lead to fires and equipment damage.

Many electrical incidents are preventable by following safe work practices, using proper equipment, and staying alert.

Think safe. Work safe. Go home safe.

COMMON ELECTRICAL HAZARDS



ELECTRIC SHOCK

Contact with live parts or faulty equipment can cause shock, burns or death.



ELECTRICAL FIRE

Overloaded circuits, faulty wiring or damaged equipment can cause fires.



DAMAGED EQUIPMENT

Frayed cords, broken plugs or exposed wires can lead to serious accidents.



WET CONDITIONS

Water and electricity together increase the risk of shock.



OVERHEAD POWER LINES

Contact with or working too close to power lines can be fatal.



5 GOLDEN RULES OF ELECTRICAL SAFETY



DO'S – FOLLOW THESE

- ✓ Use only approved electrical equipment and tools.
- ✓ Inspect cords, plugs and tools before use.
- ✓ Keep electrical panels and areas clean and dry.
- ✓ Do not overload sockets or extension cords.
- ✓ Use RCD (Residual Current Device) protection.
- ✓ Report any electrical hazard immediately.
- ✓ Ensure you are trained and authorized.



DON'TS – AVOID THESE

- ✗ Do not touch electrical equipment with wet hands.
- ✗ Do not use damaged cords, plugs or sockets.
- ✗ Do not bypass or disable safety devices.
- ✗ Do not overload circuits or sockets.
- ✗ Do not perform electrical work unless authorized.
- ✗ Do not ignore warning signs or tags.
- ✗ Do not take shortcuts – ever.



DID YOU KNOW?

Just 30 milliamps of electric current can cause ventricular fibrillation (terminal heart condition).

Always respect electricity. It gives no second chance.



DISCUSSION QUESTIONS

- 1 What electrical hazards exist in our work area?
- 2 When should equipment be inspected?
- 3 Why is lockout/tagout important?
- 4 What would you do if you see damaged electrical equipment?



ELECTRICAL SAFETY CHECKLIST

- ✓ Is equipment in good condition?
- ✓ Are cords and plugs undamaged?
- ✓ Are electrical panels accessible?
- ✓ Is RCD protection available?
- ✓ Are warning signs displayed?
- ✓ Are you trained and authorized?
- ✓ Is the work area dry and clean?

If any answer is NO – STOP and fix it.



REAL-LIFE EXAMPLE

A worker used a damaged extension cord to power a tool. The cord's insulation was cut and exposed wires caused an electric shock when the worker touched the tool casing.

The worker sustained serious burns and was hospitalized.

A simple inspection could have prevented this serious incident.



SUPERVISOR SIGN-OFF

Discussed with crew by: _____ Date: _____



SAFETY MESSAGE

Electricity is very useful, but it can also be very dangerous. Be alert, follow the rules, and stay safe.



**THINK SAFE
WORK SAFE
GO HOME SAFE**

safe workplace, safer workforce