SDS CONTENT PLAN

# Equipment maintenance

* Maintenance of equipment is very important ,If employers don't inspect, repair, and upgrade their machinery, that can lead to failure and electrical injury or death.

# Maintenance Approaches

* **Explosion-Proofing:** Equipment must be maintained to prevent explosion risks from electrical faults.
* **Dust Proofing:** Machinery must be protected from dust, which can cause mechanical or electrical failures.
* **Maintenance:** Regular checks should be done to ensure parts like screws and gaskets are secure and functioning.
* **Reporting & Repair:** Any issues must be reported immediately, and the affected equipment must not be used until repaired.

Safety Tips

1. **Plan Ahead:** Create a project plan to identify hazards, use correct PPE/IPE, and locate power shutoffs.
2. **Wear Proper Gear:** Always wear rubber gloves, insulating sleeves, safety glasses, and fire-resistant clothing. Avoid metal items like jewelry.
3. **Use the Buddy System:** Work in pairs. Both must be trained in electrical safety and CPR to respond to emergencies.

* **Follow Lock Out Tag Out (LOTO):** Six steps:
* Inspect for hazards
* Shut down the circuit
* Isolate equipment
* Lock and tag controls
* Check for stored energy
* Verify all steps

1. **Avoid Wet Areas:** Dry or cover damp surfaces with non-conductive materials to reduce risk.
2. **Use GFCIs:** Ground Fault Circuit Interrupters automatically shut off power during surges or electrocution.
3. **Stay Clear of Power Lines:** Maintain at least 10 feet from overhead wires per OSHA guidelines.
4. **Inspect Cords and Outlets:** Replace damaged plugs, wires, and outlets. Watch for missing grounding prongs or signs of burning.
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Common Electrical Preventions.

Preventions:

* Before use, inspect safety glasses and gloves for signs of wear and tear, and other damage.
* Do not attempt to do any electrical work if you are not trained.
* Remove jewellery before working with electricity