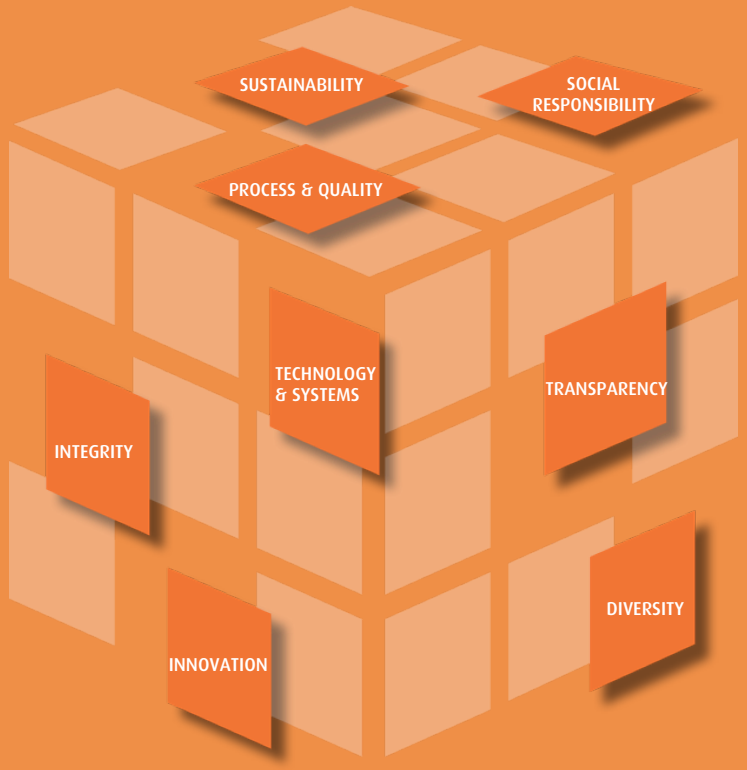
Electrical Safety



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Electricity Can Kill

- Treat electricity with the respect it deserves
- Electricity is the most commonly encountered hazard in the workplace
- Death can be caused from direct exposure or injuries after shock

How Does Electricity Work?

Electricity always:

- Travels in completed circuits through the path of least resistance
- Flows toward the ground

Conductors allow electricity to flow

Insulators prevent electricity from flowing

How Does A Shock Occur?

- Your body is a great conductor of electricity
- Touching a circuit and the ground can cause serious injury or death
- The greatest risk of shock is when you touch water
- ‘Low voltage’ does not mean ‘low hazard’

Deenergize Live Parts

- Avoid working on or near live parts

To deenergize live parts:

- Turn current off at switch box
- Lock and tag switch box
- Release any stored energy
- Verify equipment is shut down
- Inform coworkers before restarting power

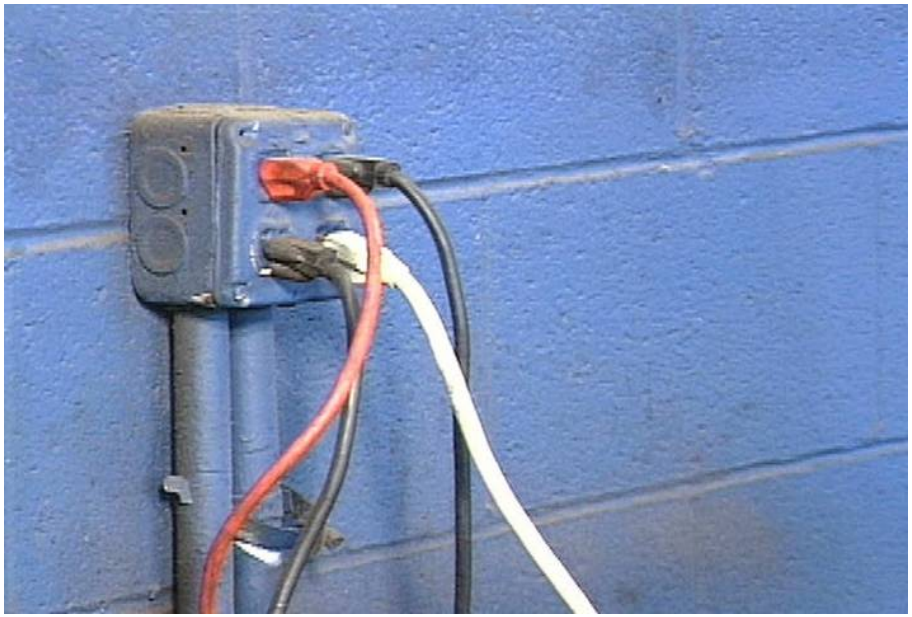
Prevent Accidental Contact

- Take precautions to ensure dangerous live parts are out of reach

- When you enter a confined space:
  - Use protective shields, barriers or insulation
  - Make sure doors and hinged panels are secured

Working Safely With Energized Equipment

- Never enter a space if you can not see the live parts
- Be careful when holding conductive materials
- Do not wear conductive jewelry
- Avoid housekeeping until area is safe



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Working Safely With Overhead Lines

- Overhead power lines cause half of all electrical deaths
- Deenergize lines before working
- Stay safe by keeping the following distances:
  - 10 feet for lines under 50,000 volts
  - Additional 4 inches for every added 10,000 volts

Working Safely With Portable Electric Equipment

- Do not work with damaged cords
- If cord is damaged, remove from service
- Do not use if you or the environment are wet

Working Safely With Extension Cords

- Extension cords are only a temporary solution
- They're at higher risk of damage than fixed wiring
- Damaged cords cause shocks and fires
- They should be checked before shifts start

Personnel Protection Equipment (PPE) Will Save Your Life

Examples of PPE that will protect you from dangerous electrical currents:

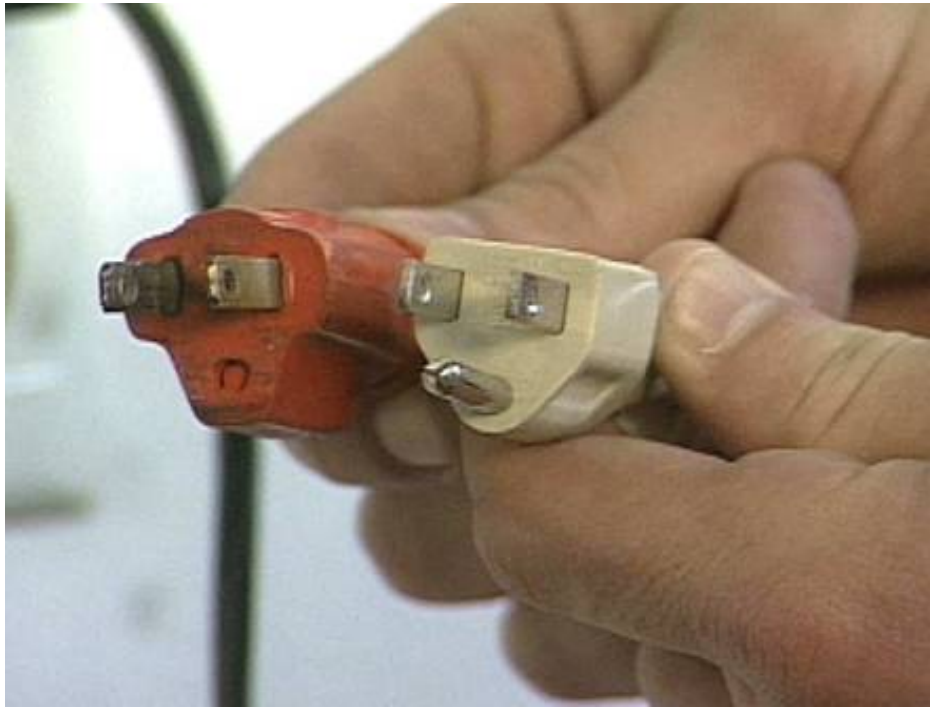
- Industrial protective helmets
- Eye gear
- Rubber gloves
- Rubber shoes
- Rubber mats

Grounding Prevents Injuries

Grounding equipment prevents dangerous electricity from traveling through your body

Examples are:

- Three prong plug
- Equipment ground



Circuit Protecting Devices Prevent Injuries

They shut off the flow of electricity if level becomes too dangerous

Examples of these devices are:

- Fuses
- Circuit breakers
- Ground Fault Circuit Interrupters

Summary

- Electricity can kill
- Your body is a great conductor of electricity
- Do not work on or near live parts
- Treat electricity with the respect it deserves

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