Electrical Work Flow Chart Example 1

1. Identify the Hazards
2. Test Before Touch
3. Follow All Safe Work Practices That Apply

Start

What is the voltage level?

≤ 50 volts

Are there exposed live parts?

Yes

No

The decision to de-energize should include consideration of the capacity of the electrical source and any overcurrent protection (fuse or circuit breaker) between the source and the worker.

Apply good maintenance practices and protect the electrical systems and parts from mechanical damage.

Energized Electrical Work Permit required

Follow label for hazards

Permit to Work required (as applicable at location)

Refer to Section 130.7 for PPE requirements

Yes

Is the equipment now in an electrically safe work condition?

De-Energized

Locked out

Tested

Grounded

No

Yes

Follow Lockout/Tagout (Section 120.2).

Will the equipment be put in an electrically safe work condition?

Job Summary

De-Energized

Locked out

Tested

Grounded

Yes

No

Proceed to Work SAFELY

≤ 50 volts

< 50 volts

Follow Lockout/Tagout (Section 120.2).

Energized Electrical Work Permit required

Follow label for hazards

Permit to Work required (as applicable at location)

Refer to Section 130.7 for PPE requirements

Yes

Is the equipment now in an electrically safe work condition?

De-Energized

Locked out

Tested

Grounded

No

Yes

Proceed to Work SAFELY

Yes

No

No

No

Yes

No

No

No

No

Yes
**Electrical Work Flow Chart Example 2**

**Steps for Establishing an Electrically Safe Work Condition**

1. **Determine all sources of electrical supply.** Check up-to-date drawings, one-lines, etc.
2. **After interrupting the load current, open the disconnecting device(s) for each source.**
3. **Wherever possible, visually verify circuit opening.** Apply appropriate PPE to test.
4. **Apply lockout/tagout devices in accordance with a documented and established policy.**
5. **Use adequately rated voltage detector to verify parts are de-energized.**
6. **Where possibility of stored energy exists, ground conductors before touching them.**

**Conduct a Job Briefing**

**Can this equipment be de-energized?**

- **YES**  
  - Will you be doing any of the following tasks?  
    - Pulling Wire
    - Drilling Holes
    - Tapping Bus Plugs
    - Running Pipe
    - Racking Breakers/MCCs

  - **Required** Energized Electrical Work Permit

  - Will you only be Testing or Voltage Measuring?

- **NO**  
  - Follow label for hazards, Apply appropriate PPE

**Proceed to Work SAFELY**

- Follow label for hazards, Apply appropriate PPE

**Energized Work Only Allowed When**

- **YES**  
  - De-energizing introduces a greater hazard
  - De-energizing is infeasible due to equipment design or operational limitations
  - Equipment operates at less than 50V

- **NO**  
  - Conduct a Job Briefing

**Energized Work Only Allowed When**

- Conduct a Job Briefing