

# Utilities & Power Lines: Live-Wire Risks for Field Crews Meeting Kit



## WHAT'S AT STAKE

Working around utilities and power lines means being close to energy you can't see, hear, or feel until it's already causing harm. One wrong move, a misjudged distance, or assuming a line is de-energized can lead to electrocution, severe burns, arc flash injuries, or death in seconds. For field crews, every task near live lines demands constant awareness because electricity doesn't allow second chances, shortcuts, or uncertainty about what's energized.

## WHAT'S THE DANGER

Electricity doesn't give warnings. Power lines, buried cables, and energized equipment can look harmless but remain deadly unless proven otherwise. A line doesn't need to be touched to cause serious injury or death—getting too close can be enough.

### Why Live-Wire Work Is So High Risk

Electrical current can arc through air, travel through tools, equipment, or the ground, and energize objects you never expected. One raised boom, metal ladder, or conductive tool can turn a routine task into a fatal incident.

### Common Utility and Power Line Hazards

- Contact with overhead or buried energized lines
- Electrical arcing when equipment gets too close
- Step and touch potential when the ground becomes energized
- Vehicles, tools, or structures becoming energized after contact
- Misidentified, poorly marked, or assumed de-energized lines

### False Assumptions That Get People Hurt

Thinking a line is dead because it looks inactive, was previously shut down, or hasn't caused problems before is one of the most dangerous mindsets in utility work. Only testing, verification, and proper isolation confirm whether a line is truly safe to approach.

# HOW TO PROTECT YOURSELF

Staying safe around utilities and power lines starts with one rule: never trust your eyes or assumptions. Electricity doesn't look dangerous, so protecting yourself means slowing down, asking questions, and treating every line as live until it's proven otherwise.

## Assume It's Energized Until Proven Safe

Overhead lines, buried cables, and exposed conductors should always be treated as live. Don't rely on tags, colors, or what "usually" happens. Lines must be properly identified, tested, and confirmed de-energized before anyone gets close.

## Keep Your Distance and Control the Work Zone

Give power lines more space than you think you need. Maintain required minimum approach distances and use spotters when working with booms, ladders, or long tools. Set up clear boundaries so no one accidentally steps or reaches into danger.

## Plan Before You Dig or Lift

- Locate and mark underground utilities before excavation
- Review lift plans and swing paths near overhead lines
- Use non-conductive tools and equipment when possible
- Never raise equipment without checking clearance

## Watch the Ground as Much as the Line

If a line contacts the ground or equipment, the area around it can become energized. Stay put if you're in a vehicle, warn others to stay back, and don't step away until the area is declared safe. Step and touch potential can be deadly even without direct contact.

## Slow Down When Conditions Change

Weather, visibility, traffic, and job scope changes all affect electrical risk. If the plan doesn't match what you're seeing on site, stop and reset. Taking an extra minute to reassess around power lines can prevent injuries that happen in seconds.

## Speak Up and Stop Work When Unsure

If something doesn't add up—unclear markings, missing documentation, or unexpected lines—stop work and ask. Around electricity, hesitation is safer than guessing, and stopping the job is often what keeps crews alive.

## FINAL WORD

Power lines don't give second chances. Stay alert, keep your distance, and never assume a line is safe because when it comes to electricity, slowing down and speaking up is what keeps crews alive.

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