



Utility High Voltage Safety Training

Course information sheet

Course duration 8 hours

Course overview

This eight-hour instructor-led course introduces the hazards and work planning practices associated with electric power generation, transmission, and distribution work. Participants examine shock and electric arc exposures, minimum approach distances, job briefings, energy isolation and protective grounding, and the selection of protective equipment and tools. Discussion and scenarios connect OSHA requirements to the tasks and exposure of each role.

Who should attend

Apprentices, lineworkers, operators, electricians, meter and relay technicians, dispatchers, supervisors, managers, planners, engineers, and others involved in utility work, oversight, or work planning. Examples are tailored to each role and exposure.

Learning outcomes

- Identify the scope of utility electrical work rules and the training needed for assigned tasks.
- Recognize shock, electric arc, step and touch potential, and unexpected energization hazards in utility work scenarios.
- Use system voltage and work conditions to discuss minimum approach distances and methods that maintain required separation.
- Describe the job briefing, clearance, testing, and protective grounding considerations for planned work.
- Select appropriate categories of insulating equipment, live-line tools, test instruments, and arc-rated protection for a described exposure, subject to employer procedures.
- Evaluate a proposed work scenario and identify safer controls, communication, and emergency response needs.

Topics covered

Utility work rules and training; job briefings; shock, arc, step and touch potential; minimum approach distances; energized work controls; protective equipment, tools, and testing; deenergizing, clearances, and grounding; overhead, underground, and substation scenarios; emergency planning.

Format and references

Instructor-led discussion, demonstrations, and scenarios. References: 29 CFR 1910.269; 29 CFR 1926 Subpart V; NFPA 70E where applicable.

Completion alone does not qualify a worker for a task or authorize energized work; employers provide and assess task-specific training.

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