

# Electrical Safety for Qualified Workers: Power Generation, Transmission & Distribution [based on OSHA 1910.269]



A DIVISION OF ECPI UNIVERSITY

This course addresses the rules and safe work practices outlined in OSHA 1910.269 for the generation, transmission and distribution (GTD) of electricity. Not just for utilities, the standard applies to industrial establishments as well who may have substations and distribution equipment. Though 1910.269 is not voltage specific, the distribution equipment often found at industrial establishments operates in the range from 1,000 volts to 35,000 volts.

This course focuses on safe work practices of OSHA 1910.269 as they apply to typical industrial distribution systems and equipment. With a seven-fold increase in OSHA's penalty structure for violations, and proposed revisions to allow harsher criminal negligence citations, you and your contractors need to be updated. Learn how to create a safe work environment for you and your co-workers through understanding electrical hazards and proper work and protection practices.

Review the OSHA specific requirements for working near generation, transmission and distribution systems, including personal protective grounding, equipment grounding, live line tools, PPE, and LOTO. Training will address power generation, over-head and underground lines and typical applications.

## WHAT THIS COURSE COVERS

- OSHA 29 CFR 1910.269 Mandates to Work Safely and Efficiently near High Voltage Electrical Systems
- Understand Electrical Hazards, Electrical Shocks, and Arcs and Blasts
- Fault Current and Potential Difference
- Power Generation, Over-Head, and Underground Lines and NESC Applications
- Personal Protective Grounding, Live Line Tools, LOTO and PPE
- Electrical Safety-Related Work Practices

## WHO SHOULD TAKE THIS

- Linemen and Utility workers
- Electricians who Work on Generation, Transmission or Distribution Systems
- Environmental Health and Safety Personnel Responsible for Electrical Work
- Supervisors Overseeing Employees Working on Generation, Transmission and Distribution Systems
- Engineers Responsible for Generation, Transmission or Distribution Systems

## COURSE OUTCOMES

- Learn how to Create a Safe Work Environment for you and your Co-Workers
- Review the OSHA Specific Requirements for Working on or near Generation, Transmission or Distribution Systems.

## COURSE AGENDA

- Understanding the Rules and Regulations for Generation, Transmission and Distribution
- Unique Hazards when Working at GTD System Voltages
- Electrical Personal Protective Equipment PPE, Live Line Tools
- Safe Work Practices for Specific Applications
- Hazardous Energy Control for GTD
- Specific Safety Applications



Lecture



Hands-on



ONSITE: 2-days (16 hours)



LIVE ONLINE: 2-Days (16 hours)



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