



High Voltage Electrical Safety for Power GTD – 29 CFR 1910.269

This development course is available in both virtual and in-person, instructor-led formats, it is a two-day development designed for safety in working on and around High Voltage Electrical Safety for Power Generation, Transmission, and Distribution equipment.

Description:

In this workshop, team members will learn how to work safely and efficiently around high voltage electricity. OSHA Requirement 29 CFR 1910.269 covers the operation and maintenance of electric power generation, control, transformation, transmission, and distribution lines and equipment. This workshop will outline all the requirements in this OSHA ruling and how it applies to all electric power GTD operations. This High Voltage Electrical Safety Training workshop, while perfect for any team member who works around electric power GTD installations, is specifically designed for personnel working on or around high voltage electrical lines, equipment or around substations, underground electrical installations or power generators.

Course Outline:

Day One – Topics

Day One reviews the relevant OSHA standard and examines electrical safety in the workplace. Team members will learn the skills and techniques necessary to determine the nominal voltage of exposed live parts, the minimum approach distances corresponding to the voltages to which the qualified employee will be exposed, and the proper use of the special precautionary techniques, personal protective equipment (PPE), insulating and shielding materials, and insulated tools for working on or near exposed energized parts of electric equipment.

1. The OSHA Standard
2. Electrical Current
3. Electrical Shock, Arc and Blast
4. Understanding of Electrical Hazards



5. Electrical Lockout/Tagout
6. De-energized Equipment
7. Electrical Safety Work Practices
8. Energized Equipment & Circuits
9. Personal Protective Equipment
10. Enclosed Spaces
11. Ladders & Platforms
12. Excavations
13. Hand & Power Tools
14. Material Handling & Storage
15. Inspection of Test Instruments
16. Working on or Near Energized Equipment

Day Two – Topics

Day Two focuses on workplace hazards and how to safely work around power lines. We take the practical knowledge gained in day one and apply it to real world situations.

1. Ground Fault Interrupters
2. Ground Fault Protection Systems
3. Clearance Distances for Installed
4. Electrical Equipment
5. De-energizing Lines
6. Test and Test Facilities
7. Overhead Lines
8. Line Clearance
9. Communication Facilities
10. Maintenance of Electrical Equipment
11. Grounding
12. Underground Electrical Installations
13. Power Generators
14. Substations