

Electrical Grounding Safety

Instructor-Led Training

Electrical Grounding Safety provides a comprehensive understanding of theory and industry best practices to ensure personnel safety when dealing with electric power lines and substations. Designed for engineers, field operations, and safety specialists, students learn concepts of “equipotential grounding,” “bracket grounding,” and “single-point grounding” while understanding how they affect their personal safety.

Students review safety equipment testing requirements and procedures for readiness while learning common sense aspects of safe electrical grounding and how to evaluate jumpers’ expected performance.

Students learn to appreciate the rationale behind single point grounding, proper vehicle safety, and equipment testing, while discussing the safety concerns outlined in OSHA accountability for proper personnel training and equipment selection.

This course is designed to significantly reduce the risk of serious injury accidents.



Electrical Grounding Safety – 2 day Instructor-Led

After completing this class, students will be able to:

- Explain OSHA requirements and why proper electrical grounding procedures are important
- Discuss electrical power system basics while emphasizing effective grounding
- Describe Ground Potential Rise (GPR) and Zone of Influence (ZOI)
- Explain where touch and step potential hazards exist and how to prevent serious injury accidents
- Describe various equipment configurations and best grounding procedures for safety
- Describe how vehicles should be positioned and equipped for personnel safety
- Discuss proper grounding procedures for both overhead and underground systems
- Describe grounding equipment testing and how to analyze results



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