

Arc Flash Safety for Utilities

Based on OSHA 1910.269

5-Hour Course

OVERVIEW This class is designed specifically for the needs of utility workers working on or near low or high voltage lines or equipment, or for those managing individuals in these environments. Attendees will learn about the dangers of arc hazards, practical protection strategies, and best PPE practices in alignment with OSHA 1910.269 regulations, updated in 2014, and NESC.

REFERENCES OSHA 1910.269, NESC

MATERIALS e-Hazard [Arc Flash Safety for Utilities Workbook](#)

1. Electrical Safety Facts

2. Regulations & Standards

- Electrical Safety Standards
- Understanding Differences and What Applies to Utilities
- Key Definitions/Issues
- Select New Regulations in OSHA 1910.269

3. Shock Hazards & Protection Strategies

- Types
- Shock Protection Boundaries
- Methods for Determining Minimum Approach Distances (MAD)
- Voltage Rated Gloves and Other Shock PPE
- Live-Line Tools and Rated Insulated Tools

4. Arc Flash Hazards & Protection Strategies

- Causes/Types
- Arc Blast
- Common Places for a Fault Related to Utilities
- Mitigating Hazards through Engineering Design
- Work Method Innovations
- Arc Flash Boundaries

5. Arc Rated Personal Protective Equipment

- Overview
- Protecting Head, Hands and Feet
- PPE Programs: Categories, Levels, Systems
- Environmental Considerations
- PPE Use, Care and Maintenance

6. Hazard Risk Assessment

- Arc Energy Theory as Applied to Utilities
- Risk Assessment Components and Considerations
- Calculation Methods Overview
- Labeling

7. Safety Related Work Practices

- Review