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## OSHA 29 CFR 1910 Electrical Safety Training

Course details: <https://www.electricityforum.com/electrical-training/osha29-cfr-1910-training-course>

OSHA 29 CFR 1910 Electrical Safety Training Course - This 12-Hour (2-Day) live-online, instructor-led Arc Flash Electrical Safety course is suited to electric utility workers working with or near low or high voltage lines or equipment and those whose task it is to manage workers in those environments. Students will learn about the dangers of arc hazards, safe work practices in accordance with the NEC and OSHA 1910.269 standards, practical personal protection strategies, best work practices in arc flash, and the state of the art in personal protective equipment in alignment with OSHA 1910.269 regulations and NEC standards.

### **What is Electrical Safety and OSHA 29 CFR 1910.269 Standard For Electric Power Generation, Transmission and Distribution?**

OSHA's Electric Power Generation, Transmission and Distribution Standard, 29 CFR 1910.269, provides direction for employers on implementing safe work practices designed to prevent these hazards.

Workers in the electric power industry are potentially exposed to a variety of serious hazards, including electric shock, falls, burns and arc flashes. OSHA's Electric Power Generation, Transmission and Distribution Standard, 29 CFR 1910.269, provides direction for employers on implementing safe work practices designed to prevent these hazards.

### **OSHA 29 CFR 1910 Training Course Description**

This training course complies with the training mandates under OSHA 1910.269, and is targeted at Generation, Transmission and Distribution qualified electrical workers.

Students will learn the importance of creating a safe work environment through a better understanding of how to assess potential electrical hazards and proper personal work practices and PPE requirements.

Students will review the OSHA specific requirements for working near high voltage electrical systems including:

- Personal protective grounding
- Equipment grounding
- Live line tools
- PPE selection
- Lockout/Tagout (LOTO)

Training will address power generation, overhead and underground lines and NESC applications.

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.

### **LEARNING OBJECTIVES**

- OSHA Regulations 1910.269, being qualified and working safely
- Types of arcs and what happens when you are exposed to an arc flash
- Arc flash PPE and how it works
- Public safety (limited approach) boundaries
- Minimum approach distance
- Testing and verifying equipment is de-energized
- Arc flash PPE requirements
- Personal clothing issues and how to avoid them
- Arc flash boundary concept
- Basic hazard assessment
- Difference between NESC, NFPA 70E and OSHA 1910.269 affecting utility workers

### WHO SHOULD ATTEND

Students who will benefit from attending this course include:

- HV Electricians
- Linemen
- Utility safety directors
- RECC or IOU utility managers
- Meter service workers
- Underground network linemen/cablemen

Other people who are frequently impacted by this training:

- Electrical maintenance technicians
- Energy management personnel
- Fire Alarm Technicians
- Plant & facility maintenance technicians
- Building engineers
- Building managers & superintendents
- Plant & facility managers

## **STUDENTS RECEIVE**

- **FREE** Electricity Forum 120-Page Arc Flash/Electrical Safety Handbook (Value \$20.00)
- **\$100 Coupon** Toward Any Future Electricity Forum Event (Restrictions Apply)
- 1.2 Continuing Education Unit (CEU) Credits (12 Professional Development Hours)
- **FREE** Magazine Subscription (Value \$20.00)
- Course Materials In PDF Format

## **COURSE OUTLINE**

### **OSHA 29 CFR 1910 Training Course Outline**

#### **INTRODUCTION TO OSHA**

National consensus standards:

- NFPA 70E
- National Electric Safety Code (ANSI) aka ANSI C2

Standards development

- American National Standards Institute (ANSI)
- American Society of Testing and Materials (ASTM)
- Institute of Electrical and Electronic Engineers (IEEE)

- National Fire Protection Association (NFPA)

## **UNDERSTANDING ELECTRICAL HAZARDS**

- Electric shocks, arcs and blasts
- Fault current and potential difference
- Electrical safety in industrial plants

## **29 CFR 1910.269: ELECTRIC POWER \_GENERATION, TRANSMISSION & DISTRIBUTION**

### **1910.269(a): Application**

### **1910.269(c): Job briefing**

- Required topics
- Number of briefings

### **1910.269(d): Hazardous energy control (lockout/tagout) procedures**

- Clearance procedures
- Switching procedures

### **1910.269(g): Personal protective equipment**

- Flame resistant (FR) clothing
- Rubber protective equipment

### **1910.269(i): Hand and portable power tools**

- Portable equipment grounding
- Ground Fault Circuit Interrupters (GFCI)

### **1910.269(j): Live-line tools**

- Primary vs secondary protection requirements

**1910.269(l): Working on or near exposed energy parts**

- Approach distances
- Safe work practices

**910.269(m): De-energizing lines and equipment for employee protection**

- Switching procedures
- Clearance procedures

**1910.269(n): Grounding for the protection of employees**

- Equipotential grounding
- Testing/maintaining grounds

**1910.269(p): Mechanical equipment**

**1910.269(q): Overhead lines**

- Minimum clearance distances
- Stringing/removing lines

**1910.269(t): Underground electrical installations**

- Protective grounding
- Special hazards

**1910.269(w): Special conditions**

- Capacitor
- Current transformers

**ELECTRICAL SAFETY-RELATED WORK PRACTICES**

## **Qualified person requirements**

### **1910.332: Training**

### **1910.333: Selection and use of work practices**

- 1910.333(a)(1): Work on de-energized parts
- 1910.333(b)(2) & 1910.147: Lockout/Tagout (LOTO)
- 1910.333(c): Working on or near exposed energized parts
- 1910.334(c): Test instruments and equipment

### **1910.335: Safeguards for personnel protection**

- 1910.335(a)(1): Use of protective equipment
- 1910.335(a)(2): Insulated tools

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<https://www.electricityforum.com/onsite-training-rfq>