

★ **BRING US TO YOUR FACILITY** ★

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ONE DAY OF INTENSIVE TRAINING

ELECTRICAL SAFETY

using

NFPA 70E - 2018

“Standard For Electrical Safety In The Workplace”

This course will teach you how to get in compliance with OSHA's
Electrical Safety-Related Work Practices 1910.331-1910.335



**YOUR EMPLOYEES ARE REQUIRED BY LAW TO BE TRAINED
RETRAINING IS REQUIRED EVERY THREE YEARS**

PERSONS SUCCESSFULLY COMPLETING THIS COURSE WILL BE ABLE TO:

- Demonstrate safe work practices
- Identify and avoid electrical hazards
- Explain/recognize approach boundaries
- Select personal protective equipment
- Explain when a person is qualified to work on live equipment
- Create labels for Shock, Arc Flash, and required PPE

**Stop Wearing
Excessive
PPE And
Dressing Like A
Bee-Keeper!!!**

If you don't calculate arc flash boundaries and incident energy; employees will wear too much PPE. Learn to calculate them; for your 3-phase, 480V buses down to the enclosures where troubleshooting is performed and select less extreme PPE. Be part of the solution!



Impact
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Training that "WORKS" SM

(502) 252-9128 or www.impactu.com

"VERY INFORMATIVE CLASS! IT WILL SAVE LIVES!"

BRIAN GOMEZ - OWENS CORNING

**REDUCE
INJURIES
& FINES**

Electrical Safety COURSE OUTLINE

⚠ DANGER		
⚡	Arc flash and Shock Hazard Appropriate PPE Required	⚡
48 inch	Flash Hazard Boundary	
3 cal/cm ²	Flash Hazard at 18 inches	
1 DF	PPE Level: 1 layer 6 oz. Nomex [®] leather gloves, faceshield	
480 VAC	Shock Hazard when cover is removed	
36 inch	Limited Approach	
12 inch	Restricted Approach - 500V Class 00 gloves	
1 inch	Prohibited Approach - 500V Class 00 gloves	

OSHA 1910 subpart S contains Federal Laws for electrical workers. If your personnel face a risk of electrical shock (maintenance, engineers, techs, supervisors, operators, painters, welders, and others) you are required to have an electrical safety program and to train your employees. Learn to use NFPA 70E-2018 "Standard for Electrical Safety in the Workplace" to comply with OSHA laws. NFPA 70E-2018 is recognized by OSHA as a generally accepted industry standard and is cited when fines and penalties are assessed.

WHY ELECTRICAL SAFETY IS IMPORTANT

ELECTRICAL HAZARDS - SHOCK, ARC FLASH, ARC BLAST

- Shock effects on your body
- Arc flash burns
- Arc blast explosion injuries

OSHA 29 CFR 1910.331 - .335

SAFETY RELATED WORK PRACTICES

1910.331 SCOPE

- Who is covered by this standard

1910.332 TRAINING

- Content
- Type of training
- Who must be trained

1910.333 SELECTION AND USE OF WORK PRACTICES

- General
- Working on or near exposed de-energized parts
- Working on or near exposed energized parts

1910.334 USE OF EQUIPMENT

- Portable electric equipment
- Test instruments and equipment

1910.335 SAFEGUARDS FOR PERSONAL PROTECTION

- Use of protective equipment
- Alerting technique

OSHA 29 CFR 1910.147 LOCKOUT/TAGOUT

- Procedures for lockout/tagout
- Verification of no voltage
- Training/retraining requirements
- Documentation

NFPA 70E-2018 - SAFETY RELATED WORK PRACTICES

ARTICLE 90: INTRODUCTION

- Why this standard

ARTICLE 100: DEFINITIONS

- Terms applicable to this standard

ARTICLE 110: GENERAL REQUIREMENTS FOR ELECTRICAL SAFETY-RELATED WORK PRACTICES

- Training requirements
- Electrical safety program
- Working on/near electrical parts
- Use of equipment

ARTICLE 120: ESTABLISHING AN ELECTRICALLY SAFE WORK CONDITION

- Work on equipment that has lockout/tagout devices applied
- Lockout/tagout procedures

ARTICLE 130: WORK INVOLVING ELECTRICAL HAZARDS

- Approach boundaries to live parts
- Shock boundaries - limited, restricted
- Arc flash boundary calculations
- Incident energy calculations
- Personal protective equipment
- Labeling your equipment

WRAP-UP

- Review, Q & A
- Additional resources

"LEARNED MORE IN ONE DAY WITH YOUR CLASS THAN 2 DAYS WITH ANOTHER COMPANY'S CLASS."

LEE SOUTHARD - VOLVO CONSTRUCTION

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