

Call 1-877-978-7246



# ARC FLASH ELECTRICAL SAFETY

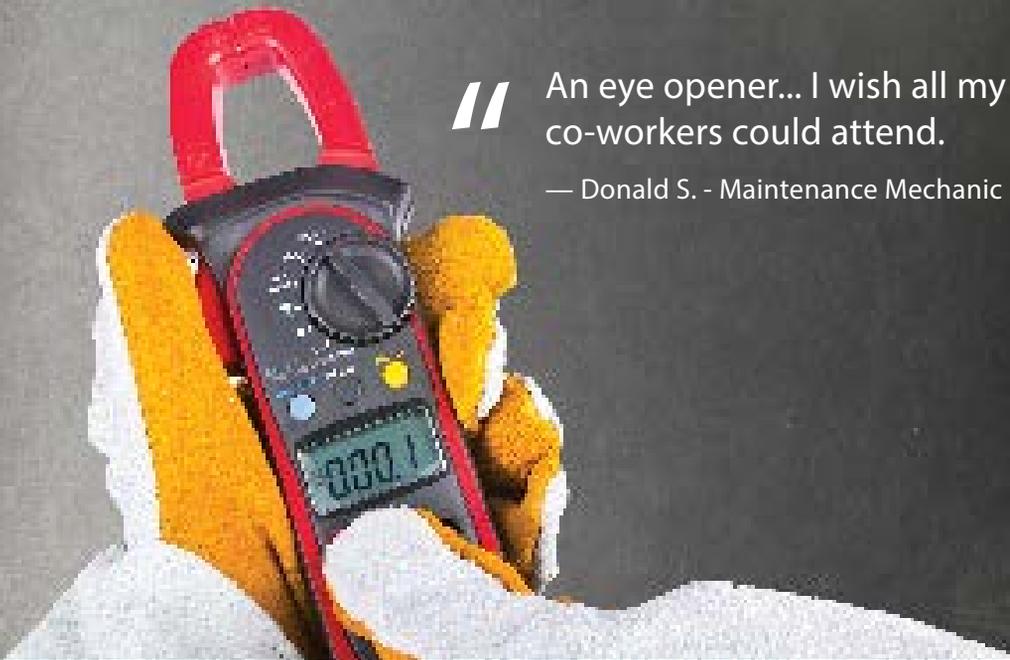
A 2-Day Training Course Based on the NEW 2021 NFPA 70E® Standard for Electrical Safety in the Workplace®

Specifically Designed for Maintenance Personnel and Electricians in Plants, Facilities and Commercial Buildings



An eye opener... I wish all my co-workers could attend.

— Donald S. - Maintenance Mechanic



- Reserve your space now either online or by calling us at 1-877-978-7246!
- Check us out online at [live.tpctraining.com](https://live.tpctraining.com) for a complete list of all virtual and in-person seminars.
- This seminar is also available for Virtual or In-Person Private Group Training

## Learning Objectives:

- Requirements of OSHA & NFPA 70E® standards
- Changes in the standards
- Identify electrical hazards
- The dangers and risks of poor electrical work practices
- What it means to be a "qualified worker"
- Safe approach distances
- How Arc Flash happens
- How to read Arc Flash labels and charts
- PPE requirements and resources
- How to work with electricity in wet or damp locations
- Lockout/Tagout procedures or electrical equipment
- Safety requirements for electrical installations
- Establishing compliance
- Penalties for noncompliance



## SEMINAR OVERVIEW

The foremost goal of this two-day Arc Flash Electrical Safety course is to keep workers safe while working on or around electrically energized equipment. The course is structured to help companies fulfill requirements set forth in OSHA 29 CFR Part 1910, Subpart S Electrical and NFPA 70E "Standard for Electrical Safety in the Workplace," which requires this type of instructor-led training for anyone working with electrically energized equipment. And starting in Fall of 2020, this seminar will include the changes in the 2021 version of 70E.

## WHAT YOU WILL TAKE HOME

- A laminated, full-color Reference Guide detailing all the "must-know" information covered in the class. Keep this with you while on the job for immediate knowledge recall.
- Comprehensive classroom materials
- A Personalized Training Certificate with 0.8 TPC Training Continuing Education Units for each day attended, 1.6 for both days.
- All the information you need from asking our instructors specific questions about your own unique equipment or facility.

## CONTINUING EDUCATION

Upon completion of this seminar, the student will receive a Certification of Completion and .8 TPC Training CEUs per day attended. Most employers and many government agencies accept TPC Training CEUs to fulfill their continuing education requirements. If the student needs CEUs to renew a state license, please contact us at 303-867-5039 to ensure the state licensing board has approved the seminar. If we are currently not approved by your state licensing board, we are happy to begin the process as long as we receive your request at least one month before the training date.

## DISCUSSION TOPICS

### Electrical Safety & the Qualified Electrical Worker

- Responsibilities & Requirements for a Qualified Electrical Worker
- Who Sets Safety Standards?
- Understanding OSHA's Role in Electrical Safety Regulations
- Electrical Safety Culture in Your Facility

### Electrical Hazards

- Severity of Electrical Injuries – Examples and Case Studies
- Shock, Arc-Flash & Arc-Blast
- Understanding GFICs
- Primary Causes of Arc Flashes
- How to Identify Electrical Hazards
- Understanding Ratings of Arc-Rated Personal Protective Equipment (PPE)
- The Importance of Grounding Systems
- Risk Assessment Procedures
- Emergency Response

### Safety Related Work Practices

- In-Depth Discussion of OSHA 29 CFR 1910 and NFPA 70E
- Work-Related Definitions
- Safe Operation of Electrical Meters – Ratings and Categories
- Establishing Safe Work Conditions
- Electrical Lockout / Tagout
- Working On or Near Energized Parts
- Determining Proper Approach Distances
- Completing Energized Electrical Work Permits
- Understanding an Arc Flash Analysis
- Interpreting Arc Flash Hazard Warning Labels
- Reading Arc Flash One Line Diagrams
- Personal Protective Equipment (PPE)

### Safety Related Maintenance Requirements

- Understanding General Requirements
- Common Electrical Equipment
- Premises Wiring
- Controller Equipment
- Fuses & Circuit Breakers
- Rotating Equipment
- Hazardous (Classified) Locations
- Batteries & Battery Rooms
- Portable Electrical Tools & Equipment (PPER)

### Requirements for Special Equipment Electrolytic Cells

- Batteries & Battery Rooms
- Lasers
- Power Electronic Equipment

### Electrical Safety Program

- Planning an Electrical Safety Program
- Training Requirements
- Complying with NFPA 70E
- Interpreting Arc Flash Analysis Reports
- Determining your PPE Requirements



I walked out with an interest in living longer.

— Bill G., Building Engineer

## JOIN OUR CLASSROOM SEMINARS FROM VIRTUALLY ANYWHERE

Our virtual instructor-led training option allows students to connect to a live classroom seminar via a web link, with the ability to participate full in the classroom dialogue, exercises, and Q&A. Online participants get all the benefits of the full classroom experience, plus the convenience of remote access.

### Features include

- Two full days of live, interactive instruction from a TPC Training instructor
- All classroom materials in PDF format
- Certificate of completion for 16 hours of live training
- Full technical support to ensure your online experience is a rewarding one

## SEMINAR FEE & AGENDA

This 2-day course is just \$1195 (Earn 1.6 CEUs)

7:30 am	Registration
8:00 am	Class Begins
12:00 - 1:00 pm	Lunch (on your own)
4:30 pm	Class Ends

## NO RISK REGISTRATION & MONEY-BACK GUARANTEE

You can reserve your space in the class at any time and cancel without penalty. Cancellations made more than 14 days prior to the seminar may be refunded or rescheduled. Cancellations made within 14 days may be rescheduled for any future topic and/or date. If you're not satisfied with the course, we'll promptly refund your payment.

## BRING THE TRAINING TO YOUR FACILITY VIRTUALLY OR IN-PERSON

Every public seminar class in our Course Catalog can be conducted virtually or on-site at your facility, with the same expert instructors. To arrange an in-person private group training, call or email us at [virtual@tpctraining.com](mailto:virtual@tpctraining.com).

### Some Advantages of In-Person Private Group Training

- Cost Savings — Save time and travel costs by keeping workers on-site
- Customized Content — Tailor the seminar to your facility and equipment
- Flexibility — Accommodate multiple shifts and different start and end times