RHODES STATE COLLEGE

8-Hour NFPA 70E: Electrical Safety

NFPA 70E
ELECTRICAL SAFETY TRAINING

#L6339B
TUESDAY, MARCH 7, 2017
8:30AM TO 5:00PM, LUNCH PROVIDED

General Overview of Course

Sequence of topics may vary.

Why Electrical Safety

- Impact of electrical hazards
- Electrical safety documents
- OSHA electrical safety requirements

Shock Hazard Analysis

- Understanding electrical shock
  1. How shock may occur
  2. The effects of shock on the human body
  3. Touch and step potential shock
- Shock hazard analysis process
  1. Voltage determination
  2. Shock boundaries: Limited, Restricted and Prohibited
  3. Shock hazard PPE selection, use and care
  4. Emergency response for shock victim
  5. Mitigating shock hazard

Arc Flash Hazard Analysis

- Types of electrical faults
- The nature of arc flash
- How arc flash may occur
- Arc flash hazard analysis process
  1. Defining arc flash
  2. Flash Impact of fault current and tripping time on arc flash intensity
  3. Necessary components of arc flash hazard analysis:
     A. Arc flash boundary
     B. Incident energy
     C. Appropriate PPE
  4. Arc flash boundary: labels and tables
  5. Labeling requirements: NEC/NFPA 70E
  6. Understanding fault current, working distance and incident energy
  7. Arc flash hazard PPE: selection, use and care

Arc Flash Hazard Analysis, continued ...

8. Arc flash mitigation
   A. Mains switch
   B. Coordination issues
   C. Current limiting fuses
   D. Circuit breakers and trip units
   E. Maintenance key/instantaneous
   F. Arc flash sensing units

Secondary Injuries from Shock/Arc Flash

- Fire
- Explosion
- Contact Burns
- Slips/Trips/Falls/Caught Between

Qualified Electrical Person

- Training requirements
- Responsibilities
- Employer/Employee safety requirements

Lockout/Tagout

- Training requirements
- The electrically safe work condition
- Mechanical vs. Electrical Lockout
- Absence of voltage test

Electrical Hazard Analysis Practical Scenario

Miscellaneous Electrical Safety Procedures

D.L. STEINER, INC.
ENERGY CONSULTANTS AND ENGINEERS

REGISTRATION

8-Hour NFPA 70 E Electrically Safe Workplace

Name: _____

Company: _____

Home Company Address or Box #:

_____

City, State and Zip Code:

_____

Daytime Phone #: _____

Home or Cell Phone #: Email Address: _____

_____

CHECK WORKSHOP(S) TO ATTEND:

8-Hour NFPA 70E

#L6339B March 7, 2017 8:30am to 5 pm

Registration deadline is March 1, 2017. We cannot guarantee training materials in-hand at the class for registrations received after March1.

Registration confirmations are sent via email about a week to 10 days before the start date. Confirmations include location of the training classes, directions and a campus map.

PAYMENT INFORMATION

Total Payment Due: _____

Check Enclosed (Payable to Rhodes State College)

Purchase Order #: _____

(Or attach PO to registration form. ***Read our invoicing policy.***)

Credit Card: VISA Master Card Discover Card

Name on Card: _____

Card Number: _____

Expiration Date: _____

3-digit security code: _____

REGISTRATION FEE

All prices listed are per person, per workshop and include training materials and lunch.

All workshops subject to cancellation if minimum enrollment is not met. Class size is limited to 20 participants.

Credit cards are not processed until just before listed class start date.

8-Hour NFPA 70E:

$355 Participant fee (includes lunch)

$319.50 WCOMC member discounted fee (includes lunch)

REGISTRATION FORM

Make checks payable to Rhodes State College

MAIL: Rhodes State College, c/o WEDCE
4240 Campus Drive, Lima OH 45804.

FAX: (419) 995-8096

PHONE: (419) 995-8351 (8:30am to 4pm, weekdays)

EMAIL: Eilerman.T@RhodesState.Edu
(Tammy Eilerman)

REFUND, INVOICING & CANCELLATION POLICIES

- You can withdraw from a workshop up to 3 days before its start date. A fee of $85 applies to any such cancellation for this course.
- You will be charged 50% of the fee paid for cancellation within 3 days of the respective start date.
- No refunds are issued for no-shows. Substitutions are welcome.
- A $5 service charge will be added in any instance WEDCE invoices for payment of fees.
- A $25 late payment charge will be imposed for non-payment of an invoice within the payment terms given on the invoice. Typical payment terms are net 30 days.
- WEDCE reserves the right to adjust these policies as

Northwest Ohio Manufacturing Extension Partnership

West Central Ohio WCOMC Manufacturing Consortium