

The Stark County Safety Council presents....



# NFPA 70E, ELECTRICAL SAFETY IN THE WORKPLACE & Arc Flash Training



STARK COUNTY

SAFETY COUNCIL

A committee of the Canton Regional Chamber of Commerce

Wednesday, August 5  
8 a.m. - Noon

Canton Regional Chamber of Commerce  
222 Market Ave N, Canton



On Wednesday, August 5, the Stark County Safety Council is offering a **four-hour training session for electrical safety in the workplace and Arc Flash training** presented by **Jerry Bennett, journeyman electrician with Hilscher-Clarke Electric**. Mr. Bennett is a certified OSHA 502 Outreach Trainer and for the past eight years, his focus has been on Preventative Maintenance and Testing as well as Arc Flash Analysis for NFPA 70E compliance.

Electrical dangers such as shock, electrocution, electrical explosion, and arc blast will always be present on the job, but a proper electrical training program and strategies can minimize the likelihood of injuries and fatalities.

**Register early, space is limited to 40 participants.**

**Cost: \$20 Stark County Safety Council Members; \$25 Non-Members**

For reservations, register online at [www.StarkCountySafetyCouncil.org](http://www.StarkCountySafetyCouncil.org), or complete the form and mail to the address below or fax it to (330) 456-0123. **REGISTRATION DEADLINE IS FRIDAY, JULY 31.**

**"ARC FLASH TRAINING"**  
8-5-2015

Make payable  
& mail to:

Canton Regional Chamber of Commerce  
222 Market Ave., N, Canton OH 44702

Members please make \_\_\_\_ reservations at \$20 per person. Non-members please make \_\_\_\_ reservations at \$25 per person.

**Payment Options:**

Please bill my credit card  Check enclosed

(circle one) MasterCard VISA AmEx Discover 3 digit #: \_\_\_\_\_

CC#: \_\_\_\_\_ Expires: \_\_\_\_\_ Name as it appears on card \_\_\_\_\_

Attendees: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

**\*Reservation cancellations received less than 48 hours prior to the event will be billed accordingly.\***



## NFPA 70E Electrical Safety in the Work Place and Arc Flash Training

### Introduction to Arc Flash Safety –

- History of NFPA 70E
- Who is covered
- OSHA’s Role in enforcement
- Introduction to Arc Flash Safety
- Definitions
- What is Arc Flash
- Arc Flash Hazard Assessment

### NFPA 70E Article 205 General Maintenance Requirements

- 205.2 Single-Line diagrams
- NFPA 70B Recommended Practice for Electrical Equipment Maintenance
  - o ANSI/NETA MTS

### Flash Protection Boundary and Limits of Approach

- Definition of Boundaries and Spaces
  - o Arc Flash
  - o Shock Hazard
  - o Limited approach boundary
  - o Restricted approach boundary
  - o Prohibited approach boundary



### Qualified Persons and Energized Electrical Work Permits

- OSHA Provisions for Energized Circuit Requirements
  - o Qualified Personnel
  - o Unqualified Personnel
- NFPA 70E Safe Work Distances
  - o Qualified and Unqualified Personnel
  - o Work Permits

This training is conducted by Jerry Bennett, an authorized OSHA 502 Outreach Trainer. He has been instructing OSHA 10 hour, OSHA 30 hour, as well as Electrical Safe Work Practices/NFPA 70E classes since 2004. Mr. Bennett is a journeyman electrician with more than seventeen years of experience, being employed with Hilscher-Clarke Electric since 2001. Starting in 2007, his focus has been on Preventative Maintenance and Testing as well as Arc Flash Risk Assessment’s for NFPA 70E compliance. Mr. Bennett is a Level I Thermographer with extensive experience in thermal imaging and testing on electrical systems as part of a preventative maintenance program.

### Protective Clothing and PPE for Arc Flash

- Arc Flash Rating Systems
  - o ATPV
  - o EBT
  - o HAF
- Work Clothing Burn Characteristics
  - o Natural Fibers
  - o Man Made Fibers
- Protective Clothing Layering
  - o Single Layers
  - o Multi Layers
- Protective Clothing
  - o Care and Cleaning
  - o Expected Wear Life
- Eye, Ear and Face Protection
  - o Safety Glasses
  - o Faceshields
  - o Ear plugs

