

## Arc Flash & Low Voltage Safety: Train The Trainer with Dave Smith

Cost: \$0.00

Many organizations with high turnover or simple systems will benefit from providing a basic Arc Flash training course to their employees. This two day Train the Trainer program will provide these companies with a basic 4 hour course that will certify their employees to the requirements of CSA Z462-08 or NFPA 70E-2009. Course candidates must be electrically qualified and Arc Flash certified, other restrictions also apply.

Candidates will receive a good understanding of the critical clauses in the standards and how to provide an interesting presentation. This program is being presented by Dave Smith. Dave has been teaching electrical safety courses since 1980 and has developed several hundred instructors.

### **Who Should Attend:**

Certified Electrical Professionals who wish to administer Electrical Safety and Arc Flash Awareness under their own organizations roof.

### **ARC FLASH INCIDENTS**

*Objective: Identify the dangers associated with an arc flash incident.*

#### **SUBTOPICS:**

- Electrocution
- Arc Flash Components
- Arc Blast
- Protection

### **RESPONSIBILITIES**

*Objective: Explain your responsibilities under federal and provincial law.*

#### **SUBTOPICS:**

- Managers and Supervisors
- Workers

### **ARC FLASH MITIGATION**

*Objective: Determine the mitigating factors when an arc flash occurs.*

#### **SUBTOPICS:**

- Distance
- Current
- Time
- PPE

### **GENERAL REQUIREMENT FOR ELECTRICAL SAFETY-RELATED WORK PRACTICES**

*Objective: Determine the requirements of Z462 to prevent arc flash accidents and injuries.*

## **SUBTOPICS:**

- Responsibilities
- Training Requirements
- Electrical Safety Program
- Working on or near electrical conductors or circuit parts

## **WORKING ON OR NEAR LIVE PARTS**

*Objective: Explain the Z462 requirements when working within the Limited Approach Boundary.*

### **SUBTOPICS:**

- Justification for Work
- Energized Electrical Work Permit
- Approach Boundaries to Live Parts – limited, restricted, prohibited
- Hazard Analysis – Shock Hazards and Flash Hazards
- Approach Boundaries for Shock Protection
- Flash Protection Boundaries
- Protective Equipment Requirements
- Simplified PPE Matrix
- Sample Tasks with Appropriate PPE

## **ESTABLISHING AN ELECTRICALLY SAFE WORK CONDITION**

*Objective: State the steps required to establish an ESWC.*

### **SUBTOPICS:**

- Process of Achieving an ESWC
- Working On or Near De-Energized, LOTO Equipment
- Temporary Protective Grounding Equipment
- Practice Sessions

## **TRAIN THE TRAINER**

*Objective: Demonstrate effective arc flash instructional skills.*

### **SUBTOPICS:**

- Presentational Skills
- Preparation Skills
- Course Management
- Practice Sessions

Dave is easy to understand and can take the heckling from guys trying to argue. Very knowledgeable about the curriculum and technical aspects of CSA Z462.

- **Blaine Larson, Husky Energy, Nov 08**

Dave has excellent presentation skills, and engages the student with questions and personal experience.

- **Paul Ratte, Maple Leaf Consumer Foods, Oct 08**

Excellent instructor, one of the best.

- **Bob MacGregor, BC Hydro, Oct 08**