

Workplace Electrical Safety Training - Entry Level (Based on CSA Z462)

Training Outline

Objectives: The objectives of this training are to provide the participants with an understanding of the hazards involved while working on energized electrical components and equipment, including the types of electrical injuries. In addition this training will also provide an overview of the limits of approach- both electric shock and arc flash and appropriate personal protective equipment and other safety equipment. This training is based on the CSA Z462 Workplace Electrical Safety Standard

Course Length: ½ day (approximately)

Training Outcomes: By the end of this training, the participants shall have a good understanding of the hazards while working on electrical equipment, how to prevent injury by being aware of Limits of Approach and appropriate Personal Protective Equipment. Also the student will learn common terminology being used in workplace electrical safety.

Target Audience:

- Electricians, Maintenance Personnel, Managers, Supervisors, Health and Safety Personnel, Engineers

Agenda

- Introduction to Electrical injuries- Electric Shock, Arc Flash / Arc Blast
- Prevention Strategies
- Shock Hazard Assessment (utilizing table)
- Arc Flash Hazard Assessment
- Methods of Arc Flash Hazard Assessment (brief overview)- table method, Annex H Simplified 2 Category Method (CSA Z462)
- Hazard Risk Categories
- Appropriate Flame Resistant clothing
- PPE- gloves, face shield, balaclava, etc

Please Note: This training involves a detailed practical component on the plant floor, where PPE and other safety equipment will be demonstrated. However there will be no de-energization of any equipment or working on energized electrical parts.