



ESA

Electrical Safety
Mining Services Group

Mining Services – Training Module

Understanding the NFPA 70E™ Standard Electrical Safety in the Workplace

Course Overview:

An Electrical Safety Code Workshop on the NFPA 70E™ Standard for Electrical Safety in the Workplace with specific references to the Provincial Mining Regulations and the Canadian Electrical Code.

Course Topics:

- **Electrical Hazards in the Workplace**
- **Arc Flash and Arc Blast**
- **Safety Related Work Practices**
- **Safety Related Maintenance Requirements**
- **Requirements for Special Equipment**
- **Safety Related Installation Requirements**
- **Electrical Safety Related Work Boundaries**
- **Selection of Appropriate Personal Protective Equipment**
- **Practical Applications of the NFPA 70E™ Standard**
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Course Purpose:

- **Learn using applicable regulations, codes and established standards for reference with respect to work practices/procedures ensure electrical safety in the workplace.**
- **Raise awareness of the safety hazards when working on or near electrical equipment in the workplace.**
- **Focus on the specific electrical hazard of arc flash/blast, their mechanisms and underlying causes.**
- **Recognize the potential electrical hazard in the workplace and apply work practices and procedures that will protect the worker from severe injury, i.e. appropriate PPE.**
- **Review practical means of applying the principles of the NFPA 70E™ Standard from an engineering and design standpoint.**