



**ESA**

**Electrical Safety  
Mining Services Group**

## **Mining Services - Training Module**

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# **Protection and Controls in Mines and Mining Plants**

### Course Overview:

An Electrical Safety Code Workshop on Protection and Controls in Mines and Mining Plants with specific references to the Provincial Mine Regulations, M421-93-00 “Use of Electricity in Mines” and Canadian Electrical Code .

### Course Topics:

- Protective Devices Required
- Fuses
- Circuit Breakers
- Control Devices
- Switches
- Miscellaneous Apparatus
- Solid State Devices
- Available Fault Current

### Course Purpose:

- Learn using all of the applicable regulations, standards and codes for reference with detailed information to ensure new installations meet all of the requirements.
- Recognize potential hazards from the misapplication of equipment in existing installations that may have been previously overlooked.
- Increase the knowledge and awareness of Protective Devices for all electrical personnel including their application for specific equipment and functions.
- Learn when protection of electrical equipment is required and how it should be rated.