



**ESA**

**Electrical Safety  
Mining Services Group**

## **Mining Services - Training Module**

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# **Motors in Mines and Mining Plants**

### Course Overview:

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

### Course Topics:

- Basics of Safe Electrical Motor Installations
- Unique requirements for Motor Installations
- Application of Motor Installation Rules and Requirements
- Conductor Sizing and Rating for Various Motors
- Methods of Overload Protection in a Wide Range of Applications
- Hazards of Improperly Wired Control Circuits

### Course Purpose:

- Learn using all of the applicable regulations, standards and codes for reference.
- Learn the requirements for electrically safe motor installations.
- Recognize potential hazards in existing installations that may have been previously overlooked.
- Provide detailed information to ensure new installations meet all of the applicable codes and standards.
- Increase the knowledge and awareness of electrical motor installations for all electrical personnel to meet the requirements of the various codes and standards.
- Learn installation methods and how to protect motors (and generators) for safe reliable operation
- Participate in hands-on calculation.