



ISEE Western Canada Chapter International Society of Explosives Engineers

ISEE Certificate Program Level II – Practical Blasting Applications Training Program Construction Blasting

Course Outline:

The following topics will be covered in the training program:

Construction Safety

- **Safety and the Blast Site**

Highway Construction

- **Overview**
- **Explosives selection**
- **Drilling**
- **Ground vibration and air waves**
- **Powder Factor calculations**

Explosives

- **Wet vs. dry**
- **Bulk loading**
- **Initiation systems**

Blast hole pattern design

- **Side hill cuts**
- **Sinking shots**
- **Through cuts**

Controlled Blasting

- **Pre-splitting**
- **Trim blasting**
- **Buffer blasting**

Trench Blasting

- **Urban trenching**
- **Cross country trenching**

The course will include a quiz and students who pass will receive a Training Certificate issued by the International Society of Explosives Engineers.