



AML Design Workshop: Dangerous Openings

This is a field-oriented course to assist AML field staff in the selection and design of reclamation methods for vertical shafts, audits, and other mine openings. Course material will cover several abatement methods such as backfilling, plugs (concrete and polyurethane foam), and structural barriers (caps and grates).

Duration: 4 days

TOPICS COVERED

This field-oriented workshop requires intensive interaction, relying on active student participation and the sharing of their AML reclamation design experience. Students will be required to develop conceptual designs, plans and specifications, and construction cost estimates.

- ▼ Introduction and Overview
- ▼ Definition of Terms
- ▼ Identification of Hazards
- ▼ Identify Reclamation Methods
- ▼ Site Characterization
- ▼ Develop a Site Map
- ▼ Develop Viable Reclamation Alternatives With the Pros and Cons Associated With Each
- ▼ Develop Final Design, including Bid Specifications, Plans/Drawing and Bid Items
 - ◇ *General Description of Work*
 - ◇ *Mobilization and Site Preparation*
 - ◇ *Construction Materials and Equipment*
 - ◇ *Site Restoration*
- ▼ Demobilization
- ▼ Method of Measurement and Payment
- ▼ Develop Cost Estimates

WHO SHOULD ATTEND: AML personnel (designers, project managers, engineers, geologist and inspectors).

COMMENTS: Students are encouraged to bring the following to class:

- △ Calculator
- △ Laptop computer (optional)
- △ Plans and specs of a reclamation method (hard copy and disk in Word) that student has developed or constructed
- △ Up to five digital images or photos of the above reclamation method

Be prepared to discuss the pros and cons of this reclamation method.

Field Exercise: Field boots and rain gear are required.

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