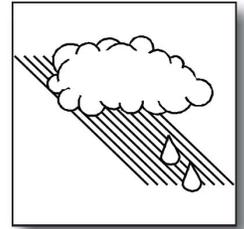


Acid-Forming Materials: Fundamentals and Applications



This course is designed to provide participants with basic information on the characteristics of potentially acid-forming materials, their oxidation, production of acid-mine drainage/related aquatic toxic materials and extremely acid materials, and potential for mitigation of these impacts.

Duration: 4 days

TOPICS COVERED

Geology

- ▼ Fundamentals of Geology
- ▼ Role of Geology in Coal Mining Reclamation
- ▼ Depositional Environments
- ▼ Pyrite Formation
- ▼ Lithological Associations
- ▼ Geohydrology

Weathering and Soil-Forming Processes

- ▼ Acid-Forming Material Oxidative Processes
- ▼ Natural Disturbed Ecosystems

Acid Impacted Ecosystems

- ▼ Acid-Forming Material Impacts on Terrestrial Ecosystems
 - ◇ *Agriculture*
 - ◇ *Infrastructure Developments*
- ▼ Acid-Forming Material Impacts on Aquatic Resources/Ecosystems
 - ◇ *Fisheries*
 - ◇ *Irrigation and Related Agricultural*
 - ◇ *Uses of Water*

Sampling and Characterization Methodologies and Procedure

- ▼ Aquatic Resource Sampling and Characterization
- ▼ Sample Handling and Preparation for Terrestrial Ecosystem Characterization

Planning and Mitigation Options

Mitigation of Acid Mine Drainage

WHO SHOULD ATTEND: Permitting specialists, inspectors and AML specialists.

Field Exercise: Hard hat, steel-toed boots, and safety glasses are required.

National Technical Training Program: (202) 208-2769