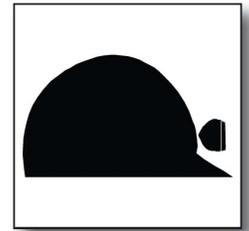


Mine Gas Safety and Investigation Course



This course will provide information on gases commonly produced from active and abandoned mines that may pose a threat to the safety, health and well being of government personnel and the public. Discussions will focus on the terms, characteristics, techniques, tools and equipment available to identify gases. The physiological impacts of each gas will be presented so that personnel may identify, at the earliest possible moment, the potential for dangerous environments. We will identify the mining and non-mining sources of stray gases and explore the natural and manmade pathways that lead to spaces that may be occupied by people. We will discuss case studies and encourage participants to bring their own cases to discuss and share with the class the problems with investigations and mitigations in this complex subject. The course will include a short field exercise to demonstrate equipment and investigation techniques.

Duration: 2 Days

TOPICS COVERED

Introduction to Gases

- ▼ Physical Properties of Gases
- ▼ Physiological/Human Impacts
- ▼ Gas Characteristics and Thresholds
 - ◇ O_2 , N_2 , CO_2 , CH_4 , CO , NO_x , Rn and H_2S

Equipment and Analytical Tools

Sources

Pathways

Investigation Techniques

Mitigation

Case Histories

WHO SHOULD ATTEND: Individuals with duties that involve field visits where dangerous gases may be encountered on active or abandoned mine sites.

COMMENTS: Students should bring a calculator, clothing appropriate for the field exercise.

National Technical Training Program: (202) 208-2769