



H2S Protection Detailed Course Outline

Chapter 1:

- Importance of Safety Training
- Hazard Assessment, Control & Elimination
- The Value of Life
- Communicating & Training
- Due diligence
- Documentation
- Competent person
- Attitude
- Culture

Chapter 2:

- Defining H₂S
- Chemical name and properties
- Major hazards
- Chemical uses
- General behaviour with other materials
- Health effects of H₂S
- Where H₂S can be found
- Preventing H₂S exposure
- Other hazards and chemicals in the environment

Chapter 3:

- Breathing apparatus & its history
- Manufacturers of air equipment products
- SABA and SCBA Systems today
- Supplied Air Breathing Apparatus (SABA)
- Self-Contained Breathing Apparatus (SCBA)
- Choosing a specific respiratory equipment
- Maximum capabilities of SABAs & SCBAs
- Maintenance
- Training
- Quality of breathing air
- Respirator fit testing
- Generic inspection of SCBA
- Donning & use of SCBA practical exercise

Chapter 4:

- Hazards to be tested for
- Oxygen Deficiency/ Enriched
- Combustible, flammable, & explosive materials
- Gases and vapours
- Fluids and mists

Chapter 5:

- Manual vs electronic gas detection devices
- Manual systems
- Electronic systems
- Personal devices vs testing devices
- Personal devices
- Testing devices

Chapter 6:

- Units of measure for gases
- Atmospheric testing requirements
- Testing for hazards in a confined space
- Placement of sensors
- Frequency of calibration
- Maintenance of gas monitors
- Potential hazards and suggested controls
- Testing strategies
- Record keeping for gas testing

Chapter 7:

- Why H₂S knowledge should be taught
- Emergency response plan (ERP)
- Rescue
- Safety practices in and emergency response
- Build an ERP
- Industry terms
- Additional resources

Practical Portion:

Every participant will:

- Participate in creating one of 14 emergency rescue plan scenarios
- Discuss the emergency rescue plan(s)
- Review & use an inspection check sheet for PPE
- Put on & fit an SCBA
- Bump test a personal monitor
- Write a knowledge test

