



# Working with Hydrogen Sulphide

## Course Overview

### Objective

This course will provide the participant based offshore with the additional knowledge, skills and appropriate attitudes to enable identification and management of H<sub>2</sub>S hazards in accordance with a slickline/conductorline, work-over, and drilling H<sub>2</sub>S management plan, in line with recognised good practice in the industry.

### Outline

Course topics and activities include:

- Properties and sources of H<sub>2</sub>S
- Toxicity levels
- Acute and chronic effects of exposure
- H<sub>2</sub>S effects on metals and elastomers
- Risk management
- H<sub>2</sub>S gas detection including fixed and portable systems, their advantages and limitations
- Respiratory protection to include types of SCBA, cascade breathing air systems, their advantages and limitations.
- Rescue of H<sub>2</sub>S casualties
- H<sub>2</sub>S emergency procedures during drilling, workover and wireline operations
- Contingency plan/station bill philosophy and description
- Detection and protection equipment overview
- Practical sessions with full duration SCBA
- Practical sessions with 10/15-minute SCBA
- Practical sessions with portable gas detection devices
- Using the cascade system, connecting, disconnecting combined SAR/SCBA
- Competency-based assessments made using approved COGENT method

### Outcome

On completion of this course the learner will be able to identify the properties and sources of H<sub>2</sub>S and Sulphur Dioxide as well as learn how to manage the risk of exposure. The learner will be able to operate a personal H<sub>2</sub>S monitor in accordance with the procedures. The learner will be able to inspect, store, don, and use the breathing apparatus supplied for training purposes, in accordance with the procedures. The learner will be able to identify their emergency procedures according to a management plan during an H<sub>2</sub>S emergency.

### Delivery

This course is designed to meet the classroom-based training requirements, as set by Cogent.

Delivery consists of classroom theory and practical exercises. This allows for total integration of competence, knowledge, thinking skills, and correct procedures.

Competency assessment consists of a knowledge and skills assessment based on classroom material and practical exercises.

### Trainers

Instructors hold a minimum of A1 Workplace Assessors Qualification and have extensive experience of H<sub>2</sub>S wells both off and onshore, in addition to many years' training experience.