

## TRAINING FOR H2S (OPTIO)

*“Understanding, Monitoring, and Mitigating the Hazards of Hydrogen Sulfide Exposure in Industrial Environments”*

### Schedule

Date	Venue	Fees (Face-to-Face)/Online
29 Jan 2026	Online (Live)	USD 450 per delegate

### Introduction

Hydrogen Sulfide (H<sub>2</sub>S) is a colorless, flammable gas with a pungent odor, often found in petroleum, natural gas, and industrial environments. Exposure to H<sub>2</sub>S can lead to severe health risks, including unconsciousness and death, making it one of the most dangerous substances in various industries, particularly in oil and gas, wastewater treatment, and manufacturing.

This 1-day online course is designed to provide participants with the knowledge and skills necessary to identify, monitor, and manage H<sub>2</sub>S risks. Participants will learn how to recognize the signs of H<sub>2</sub>S exposure, understand protective measures, and use monitoring equipment effectively to ensure safety in high-risk environments.

### Objectives

**By the end of this course, participants will be able to:**

- Understand the properties and behavior of H<sub>2</sub>S in various environments
- Identify potential sources and hazards of H<sub>2</sub>S exposure
- Use personal protective equipment (PPE) and monitoring devices effectively
- Implement emergency response and rescue procedures for H<sub>2</sub>S exposure
- Comply with H<sub>2</sub>S-related safety regulations and standards

## Why Attend

- Learn how to identify H2S hazards and mitigate risks in industrial settings
- Gain essential knowledge of safe operating procedures for H2S exposure
- Understand the importance of monitoring and PPE in H2S safety
- Enhance emergency preparedness and response strategies for H2S incidents
- Equip yourself with compliance tools and practices for industrial safety

## Target Audience

### This program is designed for:

- HSE officers, safety managers, and supervisors
- Operations and maintenance personnel working in hazardous environments
- Emergency responders and safety teams
- Engineers and technical staff involved in H2S exposure prevention
- Personnel working in oil & gas, wastewater treatment, petrochemical, or manufacturing industries

## Individual Benefits

### Key competencies that will be developed include:

- H2S hazard identification and risk analysis
- Proper usage of H2S monitoring equipment
- Knowledge of PPE and safety protocols for H2S exposure
- Emergency response planning for H2S-related incidents
- Compliance with regulatory safety standards

## Organizational Benefits

### Upon completing the training course, participants will demonstrate:

- Stronger risk management for H2S-related hazards
- Enhanced workplace safety and employee protection
- Reduced risk of exposure incidents and operational downtime
- Improved compliance with H2S safety regulations
- Better coordination in emergency response and evacuation procedures

## Instructional Methodology

- Strategy Briefings - Key H2S safety regulations, monitoring techniques, and response planning
- Hands-On Exercises - Using H2S detection equipment, setting alarms, and adjusting exposure limits
- Case Studies - Review of H2S incidents and safety lessons learned
- Workshops - Developing emergency response procedures, hazard assessments, and communication plans
- Peer Exchange - Experience sharing and Q&A sessions on H2S risk management
- Tools - Risk assessment forms, PPE checklists, monitoring devices calibration logs

## Course Outline

### For Online Session (29 Jan 2025)

Delivery Format: Online (Live) | Platform: Zoom, WebEx or Microsoft Teams

### Detailed 1-Day Course Outline

#### Day 1 - H2S Safety Training

- **Module 1: Introduction to Hydrogen Sulfide (H2S)**
  - Properties of H2S: Chemical behavior, flammability, and toxicity
  - H2S presence in industrial environments (oil & gas, manufacturing, wastewater)
  - Acute and chronic exposure effects on human health
- **Module 2: H2S Detection and Monitoring Equipment**
  - Types of H2S detection devices: portable and fixed systems
  - How to use and calibrate gas detectors
  - Setting up alarm thresholds and calibration procedures
- **Module 3: Personal Protective Equipment (PPE) for H2S**
  - PPE types: Respirators, gas masks, and self-contained breathing apparatus (SCBA)
  - PPE selection criteria based on H2S exposure levels
  - Best practices for maintaining and inspecting PPE
- **Module 4: Workshop - Setting up H2S Detection and PPE Usage**
  - Participants simulate setting alarm levels and calibrating detection devices
  - Demonstrating proper use of PPE for H2S exposure

## Certification

Participants who complete the course will receive a **Certificate of Completion in H2S Safety and Confined Space Entry**, validating their competence in H2S hazard recognition, monitoring, and emergency response.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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### In-House / Customized Training

Interested in running this course for your team?

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