

H2S Safety Engineer: H2S Risk Management & Emergency Procedures

Course Title	H2S Safety Engineer: H2S Risk Management & Emergency Procedures
Country	U.A.E, Dubai
Location	4-5 Star Hotel
Time	8AM - 2PM
Date	2026 - 2027

Specialized Training Program for Petroleum Companies

Program Overview

In petroleum operations, exposure to Hydrogen Sulfide (H₂S) poses one of the most critical risks to personnel safety and business continuity. This specialized and industry-focused training program empowers participants with practical knowledge, technical expertise, and emergency response skills tailored to the challenges of the oil & gas sector. Through real-world case studies, interactive drills, and global best practices, the program ensures readiness to mitigate H₂S hazards and safeguard both people and assets.

Key Learning Objectives

Participants will:

- Gain in-depth knowledge of H₂S properties, hazards, and industry standards.
- Apply international petroleum HSE regulations (OSHA, API, ANSI, OGP).
- Master the use of gas detection, monitoring, and PPE systems in oil & gas sites.
- Conduct risk assessments and Job Safety Analysis (JSA) specific to petroleum operations.
- Design and execute robust emergency response strategies for drilling rigs, refineries, and production sites.
- Strengthen leadership, decision-making, and safety culture within petroleum environments.

Target Audience

- HSE Managers in petroleum companies
- Safety Engineers & Supervisors
- Refinery & Rig Safety Officers
- Emergency Response & Firefighting Teams
- Petroleum Industry Leaders & Field Staff exposed to H₂S

Proposed Daily Timetable (5 Days | 8:00 AM – 2:00 PM)

Day 1 – Understanding H₂S in Petroleum Operations

- Properties, toxicology & behavior of H₂S in oil & gas fields
- International regulations & petroleum industry compliance
- Case studies of H₂S incidents in refineries & rigs

Day 2 – Detection, Monitoring & PPE

- Gas detection & alarm systems used in drilling and refining
- Calibration and maintenance in petroleum environments
- Proper use of SCBA & protective equipment in field operations

Day 3 – Risk Assessment & Control in Petroleum Facilities

- H₂S hazard identification in drilling, pipelines & refineries
- JSA for petroleum tasks
- Engineering & administrative controls

Day 4 – Emergency Preparedness in Oil & Gas

- Evacuation procedures for rigs, refineries & plants
- Rescue techniques and first aid for H₂S exposure
- Petroleum site emergency drills & role-playing

Day 5 – Leadership in Petroleum Safety & Final Assessment

- Building safety-first culture in petroleum operations
- Crisis decision-making in hazardous environments
- Knowledge test, group exercise & program wrap-up