



## (HSE) Health, Safety, and the Environment in Petroleum industry

20 - 24 Jan 2025  
Barcelona (Spain)





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**Ref.:** 15291\_290856 **Date:** 20 - 24 Jan 2025 **Location:** Barcelona (Spain) **Fees:** 5500 **Euro**

## Introduction:

A culture of health, safety, and the environment HSE is a precision-engineered framework serving as a regulatory cornerstone for petroleum companies to safeguard operations. Embracing a policy of incident prevention in the high-stakes matrix of the petroleum landscape is paramount. Strategizing for emergencies with robust evacuation, containment, and mitigation techniques is vital. Real-time location-based asset and personnel monitoring systems are instrumental in mitigating risks during business-critical situations.

This HSE oil and gas training course is meticulously curated to comprehensively explore the fundamental tenets that form the backbone of an adept safety management system in the oil and gas echelons. The health, safety, and environment HSE training program in oil and gas furnishes participants with the resources and insight to reinforce workplace safety while simultaneously catalyzing productivity metrics.

## Targeted Groups:

- Senior cadre management and proprietors of maritime and petrochemical enterprises are responsible for safeguarding employee welfare and environmental stewardship against occupational adversities inherent in these milieus.
- Venture financiers aspire to catalyze growth within designated business entities or niche segments within those organizations.
- Technical virtuosos, such as marine engineers, are tasked with certifying machinery performance benchmarks and ensuring operational safety compliance before sanctioning their usage in commercial undertakings.
- A spectrum of auditing specialists, both internal and external, are entrusted with the mission of ensuring conformity with universal safety standards and protocols.
- Policymakers are spearheading the formulation of safety regulations and the corresponding documentation cadre.
- This health, safety, and environment HSE training will be indispensable to a diverse brigade of oil company cohorts, mariners, and ship crews who navigate hazardous domains and engage in high-risk activities.

## Targeted Competencies:

By the conclusion of this health, safety, and environment HSE training program, participants' competencies will:

- Insights into cultivating well-educated employees, empowered with best practice paradigms at the workplace, will thwart peril and safeguard personnel and the environment.
- Reduction in externalized training expenditure, courtesy of seasoned in-house specialists who mentor their peers and novices.
- Dampened probabilities of adverse events and high-severity occurrences within the precincts of the workplace.
- Augmented fiscal outcomes through minimized allocation towards protecting assets, corporate chattels, and personnel from dangers.
- Bolstered corporate reputation derived from dependable and well-structured protocols for workforce welfare considerations.
- Ecological stewardship and conservation accolades awarded to the organization in recognition of exemplary practices and standards.
- Institutionalize regular internal audits to peer into system functionalities, preempting component wear and tear from escalating into critical threats.
- The infusion of cutting-edge systems and technological advancements with a dual mandate to guarantee both human safety and environmental conservatism.

## Course Objectives:

After this health, safety, and environment HSE training course, participants will be able to:

- Acquire an in-depth comprehension of workplace best practices to ensure personal well-being and that of colleagues while fortifying the integrity of the work environment.
- Heightened alertness to specific methodologies and protocols while handling merchandise and waste management aimed at minimizing the ecological footprint.
- Advanced preparedness and the capability to be pivotal in conceiving enterprise systems and procedures to protect the biosphere and the workforce from occupational menaces.
- Elevate consciousness and proficiency to propel corporate productivity by curtailing occupational risk-associated expenses, paving the way for individual career progression.
- Enhance aptitude and confidence in integrating novel technologies and executing them within the enterprise purview to ensure seamless, secure operations.
- Foster a fulfilling and commendable role in advancing environmental conservation via awareness initiatives and implementing company practices prioritizing health and safety protocols.

## **Course Content:**

### **Unit 1: HSE Management in the Oil and Gas Industry:**

#### **Module 1: The Foundation and Generic HSE Principles:**

- Explore and Produce E&P Risks.
- Loss Prevention Principles.
- Domino Theory.
- Iceberg Theory.
- Critical Success Factors.
- Competence Management.
- Attaining World-class HSE Performance.
- Maturity Profiles in HSE.

#### **Module 2: Anatomy of the HSE System:**

- Blueprint Successful Cultural Metrics Hearts and Minds.
- Elucidate Safety Management / Risk Management Paradigms.
- Tailor International Standards within a bespoke HSE-MS.
- Adopt of Golden Rules for Operational Safety.
- Blueprint of the HSE System Policy / Standards / Procedures.
- Dissect HSE System Elements.

#### **Module 3: Operational HSE Topics:**

- Synergy in SIMOPS / Bridging Documents.
- The Necessity of Safety Cases.
- Ensure Equipment Safety drilling, production, pipelines, storage tanks, offloading, and transport.

#### **Module 4: General HSE Instruments and Tools:**

- Overview of HSE Instruments / Tools.
- Deconstructing Safety Analysis with Techniques like Tripod, QRA, SIL, and Bow-tie.
- The Significance of Process Safety and Layers of Protection Analysis LOPA.
- Fundamentals of Asset Integrity and Safety Critical Elements SCE.
- Incorporating Human Factors in Safety Assessments.
- Practical Software Applications QRA, bow-tie.
- Enhance Hazard Recognition and Risk Essentials.
- Methodologies behind Task Risk Analysis and Hazard Spotting Exercises.

#### **Module 5: HSE-MS Implementation and Applied Tools:**

- Introduction to the Permit-to-Work System.
- The Cultivation of Workplace Observation Tactics.
- Deployment of Stop and Go/Last-Minute Risk Analysis Approaches.
- Ensuring Workplace Control through Housekeeping Practices.
- Systematic Blueprint for Incident Analysis.
- Demystifying Management of Change Concepts.
- Monitoring, Reviewing, and KPI Tracking Mechanisms.

## **Unit 2: Hydrogen Sulphide H<sub>2</sub>S Awareness:**

- H<sub>2</sub>S Characteristics Explained.
- Production Channels of H<sub>2</sub>S.
- Chemical Composition and Common Nomenclature.
- Physical Traits: Color, Odor, Solubility, and Vapor Density.
- The Flammability and Corrosiveness of H<sub>2</sub>S.
- Risks Posed by H<sub>2</sub>S Exposure.
- Human Susceptibility to H<sub>2</sub>S.
- Regulatory Guidelines on Exposure OSHA, NIOSH.
- H<sub>2</sub>S Occurrence in Industrial and Natural Settings.
- H<sub>2</sub>S Detection Strategies.
- Protective Equipment PPE Essentials.
- Respirator Selection Guidelines.
- Best Practices for H<sub>2</sub>S Safe Work Protocols.
- Utilizing the Buddy System and Engineering Controls.
- Containment, Ventilation, and Removal Techniques.
- The Anatomy of Contingency Planning and Emergency Responses.
- Rescue Operations and Emergency Guidelines.

## **Unit 3: Emergency Response Tactics:**

- Life Safety Protective Actions.
- Evacuation Protocols and Sheltering Tactics.
- The Science of Shelter-In-Place and Lockdown.
- Incident Stabilization Procedures.
- The Design of Effective Emergency Plans.
- Communication Channels for Crisis Management.
- Defining Roles and Responsibilities within Emergency Scenarios.
- Preparation of Site and Facility Plans.
- Training Regimes and Exercises.
- A 10-Step Progression for Developing Emergency Response Plans.
- Property Conservation and Protective Measures.
- Pre-Event Forecasting and Salvage Operations Following Incidents.

## **Unit 4: Fundamental First Aid Training:**

### **Part One:**

- Session Objectives.
- Assessing Emergency Scenes and Notification Ecosystems.
- Universal Precautions for Safety.
- Detailed Injury Assessments.
- Management of Respiratory Distress, Choking, and Cardiac Events.
- Addressing Emergency Situations: Shock, Diabetes, and Seizures.

### **Part Two:**

- Workplace First Aid Training Guidance.
- Caring for Wounds: Abrasions, Lacerations, and Punctures.
- Treatment of Burns and Eye Injuries.
- Handling Hazardous Chemical Exposures.
- Addressing Musculoskeletal Injuries.
- Interventions for Head, Neck, or Spine Traumas.
- Managing Fractures and Temperature-Related Illnesses.
- Responses to Bites, Stings, and Poisonous Plant Reactions.



**Registration form on the :  
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