



*Training Course:
Oil & Gas Operational Safety*

*27 - 31 July 2026
Barcelona (Spain)*

Training Course: Oil & Gas Operational Safety

Training Course code: HE7027 From: 27 - 31 July 2026 Venue: Barcelona (Spain) - Training Course Fees: 6300 € Euro

Introduction

Effective health and safety training is critical in the oil and gas industry, as demonstrated by major incidents like Deepwater Horizon 2010, Piper Alpha 1988, and others. This program helps participants enhance skills in identifying root causes, assess business risks, understand oil and gas risk assessment techniques, and apply advanced risk management methods for prevention and control.

Objectives

- Explain the purpose of and procedures for investigating incidents and how the lessons learned can be used to improve health and safety in the oil and gas industries
- Explain the hazards inherent in oil and gas arising from the extraction, storage, and processing of raw materials and products
- Outline the risk management techniques used in the oil and gas industries
- Explain the purpose and content of an organization's documented evidence to provide a convincing and valid argument that a system is adequately safe in the oil and gas industries

Target Audience

This program is designed for professionals involved in health, safety, and operational management within the oil and gas industry, including:

- Health, Safety, and Environment HSE Officers and Engineers
- Safety Supervisors and Advisors
- Operations and Production Engineers
- Maintenance and Mechanical Engineers
- Process Engineers and Plant Operators
- Project Managers and Site Managers
- Risk Management and Compliance Professionals
- Quality Assurance and Control Personnel
- Emergency Response and Fire Safety Teams
- Contractors and personnel working in high-risk environments within oil and gas facilities

It is also suitable for individuals seeking to enhance their knowledge of process safety, risk assessment techniques, and incident investigation in high-hazard industries.

Outlines

DAY 1 - Health, Safety and Environmental Management in Context

- Learning from incidents
- Hazards inherent in oil and gas
- Risk management techniques used in the oil and gas industries
- Safe systems of work
- Hydrocarbon process safety I
- Process Safety Management PSM

DAY 2 - Hydrocarbon Process Safety

- Mechanics of failure
- Safety-critical equipment control
- Safe containment of hydrocarbons
- Plant operation and maintenance
- Start-up and shut down
- Fire hazards, risks, and controls
- Furnaces and boiler operations

DAY 3 - Risk assessment techniques

- Framework for risk assessment
- Hazard and Operability Study [HAZOP]
- Failure Modes and Effects Analysis [FMEA]
- The Bow-tie model
- Safety Integrity Level [SIL] selection
- Hazardous Area Classification

DAY 4 - Fire Protection and Emergency Response

- Fire and explosion in the oil and gas industries
- Types of fire
- Types of explosion

- Fire and explosion risk analysis
- Fire and explosion protective systems
- Emergency Plans and response

DAY 5 - Logistics and Transport Operations

- Maritime transport
- Land transport
- Diving activities
- Cargo handling and lifting operations
- Program review

Registration form on the Training Course: Oil & Gas Operational Safety

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