



*Training Course:
Oil & Gas Operational Safety*

*8 - 12 December 2025
Barcelona (Spain)
Grupotel Gran Via 678*

Training Course: Oil & Gas Operational Safety

Training Course code: HE7027 From: 8 - 12 December 2025 Venue: Barcelona (Spain) - Grupotel Gran Via 678 Training Course Fees: 6000 € 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

Methodology

Participants will learn by active participation during the program through the use of exercises, case studies and open discussion forums. Videos shown will encourage further discussions and delegates are encouraged to bring forth experiences and problems from their own organizations. The program will be run using powerpoint slides, copies of which will be distributed both in hard and soft copies.

Summary

This training program is designed to provide a sound breadth of underpinning knowledge that enables delegates to manage oil and gas operational risks effectively.

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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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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