MERCURY

Occupational Health and Safety (OHC) Course

19 – 23 April 2027
Madrid (Spain)



Dubai - UAE: +971 4 450 5697
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Ref: 15287_1079839 **Date:** 19 – 23 April 2027 **Location:** Madrid (Spain) **Fees:** 5600 Euro

Introduction:

The importance of effective occupational health and safety OHC training in the oil and gas industry is highlighted by extensively reported examples of major process safety incidents, including the 2010 Deepwater Horizon oil rig explosion in the Gulf of Mexico, the Buncefield oil storage depot explosion 2005, the 1988 Piper Alpha oil platform explosion both occurring in the UK and the BP Texas Refinery explosion in 2005.

All organizations invest considerable amounts in training and guiding their Team Leaders, Managers, Engineers, and Supervisors in new, leaner, and more efficient production methods. However, incidents continue to occur, resulting in human harm and financial loss. This occupational health and safety OHS course aims to break the loss cycle by developing superior OHS competencies.

This occupational health and safety OHS course provides valuable insights into OHS. It is a serious step towards developing competencies that will enable further progress in these fields. The delegates' increased competencies will result in cost savings and greater efficiency within the company. It covers Safety Management, Hazard Control, and Process Safety Management.

Targeted Groups:

- Senior Technical Personnel.
- Engineering/Project/Process personnel.
- Supervisors.
- Team Leaders.
- Safety Management Personnel.

Course Objectives:

At the end of this occupational health and safety OHC course, participants will be able to:

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- Enhance their skills in identifying root causes for incidents in the Petroleum and Construction sectors.
- Identify all risks associated with their work environment.
- Become familiar with oil and gas risk assessment techniques.
- Implement advanced risk management techniques to prevent and control incidents.
- Identify the key regulations governing workplace safety in the construction industry.
- Define Hazard risk and control measures.
- Discuss common hazards and risk controls that can occur during scaffolding operations.
- Explain the purpose of, and procedures for, investigating incidents, and how the lessons learned can be used to improve health and safety in the industry.
- Explain the hazards inherent in oil and gas across the extraction, storage, and processing of raw materials and products.
- Outline the risk management techniques used in the industry.
- Explain the purpose and content of an organization's documented evidence to support a convincing, valid argument that a system is adequately safe in the oil and gas industry.

Targeted Competencies:

Upon the end of this occupational health and safety OHC training, participants' competencies will be able to:

- Utilize management and leadership criteria to improve Safety Leadership.
- Apply key interpersonal and behavioral safety techniques to influence and improve overall safety.
- Strategies to prevent incidents and accidents and the correct procedures for handling these situations.
- Use advanced Safety Coaching techniques to increase individual safety performance.
- Create, adapt, and improve the organization's safety climate and culture.

Course Content:

Unit 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.

Unit 2: The Foundations of Process Safety:

- Learning from Accidents.
- Good Practice Standards for the process industry EU and USA.
- Permit-to-work system.
- Case Study.
- Shift handover key principles.

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Unit 3: Hazards and Controls:

- Physical Hazards Noise, Vibration.
- Electricity Hazards.
- Work Equipment Hazards.
- Manual Handling Hazards.
- Workplace hazards Temperature, Violence and Bullying, Slips and Trips, Work at Height.
- Transport Hazards.

Unit 4: 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.

Unit 5: 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.

Unit 6: Fire Protection and Emergency Response:

- Fire and explosion in the oil and gas industries.
- Types of fire.
- Types of explosions.
- Fire and explosion risk analysis.
- Fire and explosion protective systems.
- Emergency Plans and Response.

Unit 7: Construction Safety Management:

- Introduction to Construction Safety.
- Risk Assessment in Construction Work.
- Form Overview and Work Information.
- Construction Safety Management.

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Unit 8: Safety and Health in Construction:

- Manage Safety and Health in Construction.
- Risk Assessment for Construction Sites.
- Planning for Safety.
- Construction Plant and Equipment, Electricity and Other Services.
- Safety and Health in Construction.

Unit 9: Health & Safety for Scaffolding:

- Manage Safety and Health in Construction.
- Duties and Risks.
- Erecting, Dismantling, and Modifying a Scaffold.
- Health & Safety for Scaffolds and Scaffolding Work.

Unit 10: Safety Advisor Development:

- Advisor roles and responsibilities.
- Leader and communicator of your company, HSE.
- Facilitate change.
- Regulatory standards compliance.
- Risks and Hazard Assessment and Reporting.