



Diploma in Occupational Health and Safety

25 - 29 Nov 2024
Barcelona (Spain)



Diploma in Occupational Health and Safety

Ref.: 15287_256206 **Date:** 25 - 29 Nov 2024 **Location:** Barcelona (Spain) **Fees:** 4900 Euro

Introduction:

The importance of effective health and safety 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 on new methods of leaner and higher efficiency production methods. Incidents however keep occurring resulting in human harm and financial loss. This course aims at rectifying the loss cycle by attaining superior competencies in the areas of Health and Safety. This course provides a valuable understanding of Health and Safety and is a serious step towards developing competencies that will enable further progress in these fields. The increased competencies of the delegates will result in cost savings and increased efficiencies within the company. The training course 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 course the participants will be able to:
- Enhance their skills in identifying root causes for incidents in the Petroleum and Construction
- Identify all risks
- Learn how to be familiar with oil and gas risk assessment techniques
- Implement advanced risk management techniques for incident prevention and control
- Identify key regulations that govern safety at work in construction
- Define Hazard risk and control measures
- Discuss common hazards and risk controls that can occur during scaffolding
- 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 arising from 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 provide a convincing and valid argument that a system is adequately safe in the oil and gas industries

Targeted Competencies:

- Utilizing management and leadership criteria to improve the Safety Leadership
- The 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
- Using advanced Safety Coaching techniques to increase individual safety performance
- Create, adapting and improving the safety climate and culture of the organization

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 the key principles

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

Unit 8: Safety and Health in Construction

- Managing 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

- Managing 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



**Registration form on the :
Diploma in Occupational Health and Safety**

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Complete & Mail or fax to Mercury Training Center at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

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Company Name:

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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):

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