MERCURY

# Construction HSE Hazards in the Oil and Gas Industry

26 – 30 July 2027
Johannesburg (South Africa)



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**Ref:** 15116_1061818 **Date:** 26 – 30 July 2027 **Location:** Johannesburg (South Africa) **Fees:** 5300 Euro

## Introduction:

The sites or yards where offshore oil and gas facilities such as modules and platforms and onshore petrochemical plants are fabricated and constructed involve activities with high hazards, such as working at height, confined space entry, rigging and lifting, and hot work, to name but a few. Moreover, these and other hazards vary in nature and scale and how they are performed and controlled according to the respective construction site's standards and practices.

Therefore, personnel mobilized to and temporarily working in these sites must have sound knowledge and awareness of the hazards and essential safeguards and controls to ensure they can not only stay safe but also help those around them stay safe. This applies both to seasoned field personnel who move to different sites from time to time and personnel with minimal previous construction site experience.

This training course on construction HSE hazards will give or expand delegates' awareness and knowledge of the nature and types of hazardous activities, safeguards, and controls that should be in place in significant facilities, construction sites, and yards.

## Understanding HSE in the Oil and Gas Industry:

Navigating through the intricate landscapes of HSE oil and gas, this course underscores the critical relevance of HSE construction within oil and gas construction projects. It meticulously embeds a framework of safety protocols, focusing on hazards in the oil and gas industry, construction hazards HSE, and the integral role of a construction HSE plan.

## Targeted Groups:

- Construction Supervisory or Inspection Personnel.
- Health, Safety, Environment, and Quality.
- Operations and Projects Managers, Leaders, and Supervisors.
- Field Engineers, Surveyors, or Inspectors.
- Support Department Personnel includes but is not limited to engineering, procurement, contracting, controls, health, safety, environmental, and quality.
- Commissioning Personnel.

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## Course Objectives:

At the end of this construction HSE hazards in the oil and gas industry course, the participants will be able to:

- Improve and enhance their understanding of hazardous work activities on construction sites.
- Learn the essential controls and safeguards for each specific hazardous work activity.
- Learn the principles for the safe control of work.
- Understand safety program initiatives and examples.
- Be conversant with the essential controls and safeguards to apply for hazardous work.
- Recognize unsafe acts or conditions in construction work activities and be proactive in their correction.
- Promote and actively participate in safety programs at construction sites.

## Targeted Competencies:

By the end of this construction HSE hazards in the oil and gas industry training, the participants will be able to:

- Overview of construction site hazards and risks.
- Understand hazardous work activities one by one and controls.
- Control of work.
- Safety programs.

## Course Content:

### Unit 1: Overview of Construction Hazards and Risks:

- Hazard Awareness.
- Site Inductions.
- Unsafe Acts and Unsafe Conditions.
- Top Ten Hazards.

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## Unit 2: Hazardous Work Activities and Controls:

- Working at Height and Fall Prevention.
- Hot Work.
- Rigging and Lifting.
- Hand and Power Tools.
- Heat Stress.

## Unit 3: Hazardous Work Activities and Controls Continued:

- Confined Space Entry.
- Mobile Equipment.
- Nitrogen.
- Pressure Testing.
- Energy Isolation.

## Unit 4: Control of Work:

- Job Safety Analysis.
- Permit to Work.
- Housekeeping.
- Inspections.
- Emergency Response.

## Unit 5: Safety Programs:

- Observations and Interventions.
- Hazard Communication.
- Tool Box Talks.
- Management Walkabouts.
- Campaigns and Initiatives.