

ABIOSH INT'L TECHNICAL CERTIFICATE IN OIL AND GAS SAFETY OPERATIONS

(ONSHORE & OFFSHORE)

INTRODUCTION

The oil and gas industry is a highly risk environment, therefore Safety and Health management is becoming an ever more important aspect in the control and reduction of accidents, incidents, illness and expensive litigation claims. Every day, the oil and gas industry must contend with an array of health, safety and environmental concerns throughout its range of operations.

In Oil & Petrochemical industries, the essential purpose of Safety Management regulations is to access the scopes and definitions, areas of specific responsibility of various parties, competencies expected, safety awareness and safe working practices, occupational safety plans, training procedure etc.

Drilling rigs and platforms are generally crowded with equipment and machinery, and — if there is an accident — there are few places to which to escape. Moreover, in locations such as the North Sea, weather conditions can be harsh and unforgiving. Thus, from its very beginning this industry has had to pay particular attention to the safety of the workers and the prevention of catastrophic events. Reducing the number of dangerous occurrences, injuries and hydrocarbon releases remains a top priority and is a key focus of the industry's absolute commitment to continually improving process safety standards, specific systems, programs and processes to manage and monitor activities that affect their safety performance.

This course comes in handy as it equips delegates with the technical knowledge, skills and tools necessary to deliver operational excellence in the safe performance of their duties in the Upstream, Midstream, Refining, tank farms and Petrochemical facilities.

DURATION: 6 Days + 2 hours exams

FEES: N180, 000 including exams, course materials and lunch

DATES: 24th – 29th November

TARGET AUDIENCE

Health and Safety Personnel

Oil and Gas Operatives, Supervisors, Engineers and Managers

Individuals directly responsible for a company's accident analysis process

Safety committee representatives

Regulators and executives from the Oil and Gas Industry

All others with a genuine interest in enhancing the effectiveness of the Health and Safety Function within the Oil and Gas Industry

Learning Outcomes:

Upon completion student will be able to:

- Identify roles and responsibilities of Occupational Safety and Health in the oil and gas workplace
- Define Personal Protective Equipment (PPE) and its purpose
- Identify when and how to use basic PPE items
- Define specialized PPE
- Identify the importance of recognizing hazards
- Define types of hazards
- Evaluate hazards
- Identify common workplace hazards (vehicles, lifting, hand tools and equipment, fire, housekeeping)
- Identify Oil and Gas Industry hazards (rotating equipment, pipe handling and hoisting, winching/towing, valves, utilities and pipelines)
- Identify gas hazards
- Define control measures relating to oil and gas hazards
- Identify safe work procedures for trenching
- Identify safe work procedures for lockout
- Identify safe work procedures for safe work permits
- Define safety communication techniques

Learning Objective

Understand Safety and Environmental Management Systems for the offshore oil and gas industries, and learn how to ensure compliance with the new SEMS regime in the worldwide

Element 1: Health and Safety Management in the Oil and Gas Industry

Managing health and safety risks in the oil and gas

Personal Protective Equipment

Hazard Recognition & Control

Common Workplace Hazards & Control

Oil & Gas Industry Hazards & Control

Fire and explosion risk in the oil and gas industries

Element 2: Operational and Safety Management in Filling Stations

- 2.1 Petrol Leaks and Spills
- 2.2 Control of Ignition Sources
- 2.3 Operating and Emergency Procedure for filling stations
- 2.4 Maintenance
- 2.5 Working with Contractors
- 2.6 Planning the Work
- 2.7 Safe Work Procedures in Filling Stations
 - 2.7.1 Commissioning
 - 2.7.2 Unloading and Venting
 - 2.7.3 Storing, Handling and Dispensing Of Petroleum Products
 - 2.7.4. Tank Dipping
 - 2.7.5 Handling Hired Trailers and House Floats
 - 2.7.8 Decommissioning

Element 3: Storage Tank Farm Operations

Types of Tanks

Advantages & Disadvantages of Different Types of Tanks

Fittings on Different Types of Tanks

Safe Operating Practices for Floating Roof Tanks

Critical Level of Floating Roof Tanks

Recalibration of Tanks -

Safety Check-List for Tank Farm Operations

Precautionary Measures for Tank Farm Operations

Gauging & Tank Quantity Calculation

Contamination & Deterioration of Product

Tank Cleaning and waste water

Loading and unloading of products (Sea and Land transport)

Tank Inspection and Safety

Emergency and contingency planning

Element 4: Safety in refinery and petrochemical plant operation

Overview of a Petroleum Refinery

Plant operations and safety

Product-related risks

Physical hazards involving personnel

Equipment-related risks

Safety in process operations

Degassing-inerting: steam, nitrogen, water,

Hazard analysis in design and operations

Maintenance hazards and precautions
Major shutdown and maintenance
Emergency warning system and procedures

Element 5 Offshore Safety

Major incidents in the offshore industry
Safety case and safety reports
Safety Considerations' In Offshore Installation Design
Common offshore Structures
Offshore Oil and Gas Hazards and Control
Exploration Hazards & Control
Rig Hazards & Control
Oilfield Trucking Hazards & Control
Production & Plant Hazards & Control

Element: Hydrocarbon process safety management

Principles of shift handover
Plant operation and maintenance
Elements of Process Safety Management (PSM)
Use of contractors and contractors Management
Permit-to-work system in an offshore setting
Mechanical integrity
Hot Work
Pre-startup Safety Review
Emergency Planning and Response

EXAMS: 2 hours exams consisting of 10 questions (2 long questions and 8 short questions)

FOR MORE DETAILS/TRAINING ENQUIRIES & BOOKINGS



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