

H S E

HEALTH

SAFETY

ENVIRONMENT



Contact us

Website: <https://btsconsultant.com/>

Email: info@btsconsultant.com

UAE office Tel: +971 26446633

Egypt Office Tel: +2 0502308081

Effective Oil & Gas Operational Safety Management

Duration: 5 Days



Introduction:

This program is based on NEBOSH International Technical Oil and Gas Operational Safety that is designed to provide a sound breadth of underpinning knowledge that enables the participants to manage oil and gas operational risks effectively. 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 (USA) in 2005. This program is designed to provide skills in identifying root causes for incidents in the oil and gas industries, identifying all business risks, familiarize with oil and gas risk assessment techniques, and implement advanced risk management techniques for incident prevention and control. Topics covered in this program include:

- Modern HSE management systems
- Up-stream and down-stream oil and gas operations and equipment

- Process safety management (PSM) Oil and gas hazards identification and analysis
- Mechanics of fire, explosion and toxic release.

Who Should Attend?

Team Leaders, Managers, Line Managers, Supervisors, Team Leaders, Project Managers, Control Center Operators and Supervisors, Emergency Dispatchers, Security Personnel and CCTV Operators, HSE Officers, HSE Personnel, HSE Professionals, Emergency Response Team Members, HSE Managers and Auditors, Health & Safety and Environmental Professionals, Coordinators, Specialists and other full-time safety practitioners, Fire Officers, Loss Control Managers, Security Directors

Course Objectives:

By the end of this course delegates will be able to:

- Explain the purpose of and procedures for investigating incidents
- 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

Course Outline:

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
- Process Safety Management (PSM)

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

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

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

Logistics and Transport Operations Safety

- Maritime transport
- Land transport
- Diving activities
- Cargo handling and lifting operations