

**COURSE OVERVIEW HE0929**

**NEBOSH International Technical Certificate in Oil and Gas Operational Safety**

**Course Title**

NEBOSH International Technical Certificate in Oil and Gas Operational Safety

**Course Date/Venue**

Session 1: August 05-09, 2024/TBA Meeting Room, London Marriot Hotel Regents Park, London, UK  
 Session 2: October 06-10, 2024/Boardroom, Warwick Hotel Doha, Doha, Qatar



**Course Reference**

HE0929

**Course Duration/Credits**

Five days/4.0 CEUs/40 PDHs



**Course/Exam Date/Venue**

As per NEBOSH Exam Scheduling Procedure

**Course Description**



***This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.***

This qualification is designed specifically for industry specialists with day-to-day safety responsibilities including managers, supervisors and health and safety advisers.



The qualification focuses on operational process safety and is intended to enable candidates to apply and implement effective process safety management across all areas of their operation and throughout the world.

The Certificate also highlights the importance of process safety management in the oil and gas industry.



The syllabus consists of one unit (Unit IOG1) that is divided into a number of elements. The Unit is a taught unit assessed by one two-hour written examination. The examination consists of ten “short-answer” questions and one “long-answer” question. All questions are compulsory. Candidate scripts are marked by external examiners appointed by NEBOSH.

## **Course Objectives**

Upon the successful completion of this course, each participant will be able to:-

- Achieve the NEBOSH International Technical Certificate in Oil and Gas Operational Safety
- Explain the purpose and procedures for investigating incidents and improve health and safety in the oil and gas industries
- Clarify 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 as well as 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
- Carryout the principles of assessing and managing contractors including the roles of parties involved
- List the tools, standards, measurement, competency requirements and controls applicable to Process Safety Management (PSM) in the oil and gas industries
- Discuss the role and purpose of a permit-to-work system and explain the key principles of safe shift handover
- Identify the importance of safe plant operation, maintenance of hydrocarbon containing equipment and processes
- Recognize the hazards, risks and controls to ensure safe start up and shut down of hydrocarbon containing equipment and processes
- Classify the various types of failure modes and failures that may lead to loss of containment from hydrocarbons
- Perform appropriate controls available to maintain safety critical equipment and recognize the hazards, risks and controls available for safe containment of hydrocarbons offshore and onshore
- Identify the hazards, risk and controls available for operating boilers and furnaces
- Carryout appropriate control measures to minimize the effects of fire and explosion in the oil and gas industries
- Implement the principles, procedures and resources for effective emergency response
- Identify the main hazards of and suitable controls for marine transport and land transport in the oil and gas industries

### **Who Should Attend**

This course provides a wide understanding and deeper appreciation of oil and gas operational safety in accordance with the international standards for those who have the responsibility for ensuring safety as part of their day-to-day duties. This includes managers, supervisors, safety representatives and newly qualified health and safety advisors within the oil and gas industries who are seeking NEBOSH international technical certification. Participants must have an underpinning knowledge of safety issues and may already have studied one of NEBOSH's certificate-level of qualifications.

### **Examination Schedule**

NEBOSH requires minimum 30 working days to schedule an exam. Students must submit their complete applications minimum 15 working days prior to the scheduled exam date. We recommend that students submit their applications one or two weeks earlier than the above NEBOSH deadline.

### **Training Methodology**

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 60% PPT & Video
- 30% Homework/Exam Questions & Answers
- 10% Workshop Exercises & Case Studies

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

### **Accommodation**

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

### **Training Fee**

**London: US\$ 8,800** per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

**Doha: US\$ 5,500** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

### **Exam Fee**

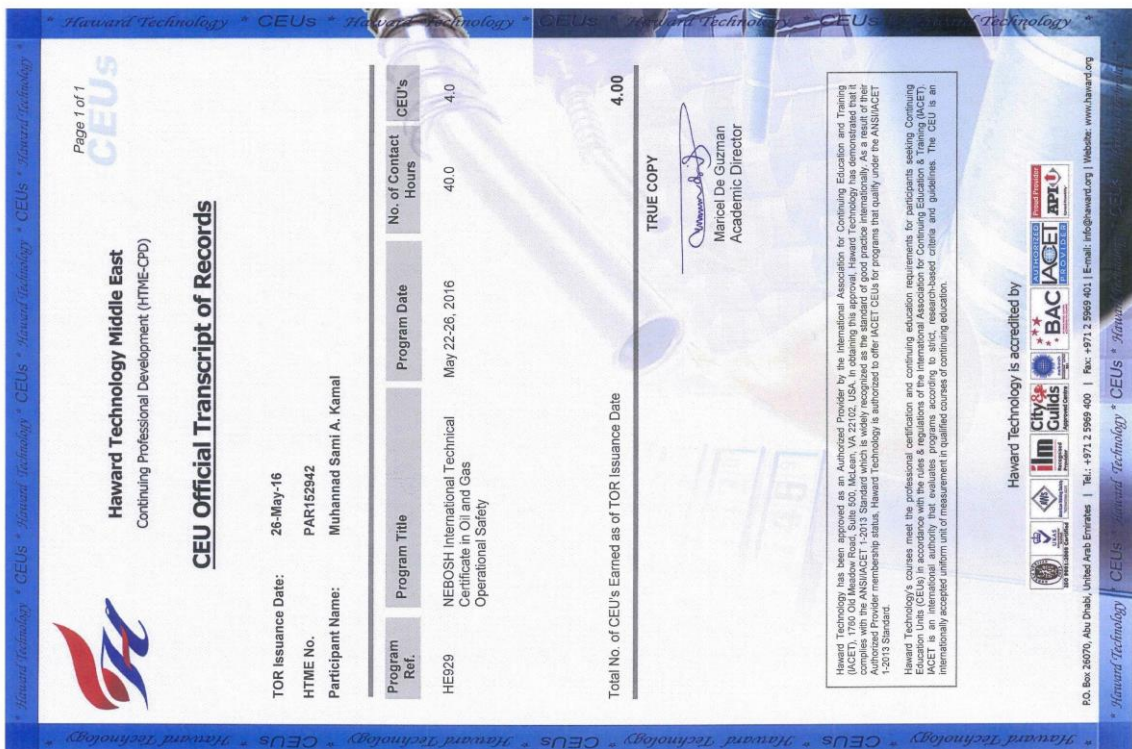
**US\$ 170** per Delegate + **VAT**.

**Course Certificate(s)**

- (1) NEBOSH International Technical Certificate in Oil and Gas Operational Safety will be issued to participants who have successfully passed the written examination.




- (2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.




### Certificate Accreditations

Haward Technology is accredited by the following international accreditation organizations:-

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NEBOSH: The National Examination Board in Occupational Safety and Health

Haward Technology is an **Accredited Course Provider** and **Learning Partner** of The National Examination Board in Occupational Safety and Health (**NEBOSH**) with **Learning Partner Number 931 Bronze**. NEBOSH is the awarding body approved by Scottish Qualifications Authority (SQA). Haward Technology is authorized to offer NEBOSH's comprehensive range of globally-recognized qualifications designed to meet the health, safety, environmental and risk management needs of all places of work.


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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **4.0 CEUs** (Continuing Education Units) or **40 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

### Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



**Mr. John Burnip**, EHS, SAC, STS, NEBOSH-ENV, NEBOSH-IGC, NEBOSH-IFC, NEBOSH-PSM, NEBOSH-IOG, TechIOSH, is a **NEBOSH Approved Instructor** and a **Senior HSE Consultant** with over **50 years** of practical **Offshore & Onshore** experience within **Oil, Gas, Refinery, Petrochemical** and **Nuclear** industries. His wide experience covers **NEBOSH** International General Certificate in Occupational Health & Safety, **NEBOSH** National Certificate in Construction Health & Safety, **NEBOSH** Certificate in Process Safety Management, **NEBOSH** Environmental Management Certificate, **NEBOSH** Certificate in Fire Safety, **NEBOSH** International Oil & Gas Certificate, **HSSE Audit & Inspection**, **HSSE Management System**, **HSSE Performance & Effectiveness**, **HSSE Emergencies, Crisis & Incidents**, Hazardous Materials & Chemicals Handling, **PHA, HAZOP, HAZID, Hazard & Risk Assessment, Task Risk Assessment, Accident & Incident Investigation, Emergency Response Procedures**, Job Safety Analysis (**JSA**), Behavioural Based Safety (**BBS**), Process Safety Management (**PSM**), **Confined Space Entry, Fall Protection, Work Permit & First Aid**, Project HSE Management System, Health & Hygiene Inspection, PTW Control, Process Modules Fire & Gas Commissioning, MSDS, Ergonomics, Lockout/Tagout, Fire Safety & Protection, Spill Prevention & Control, **Tower & Scaffold Inspection, Scaffolding** Operations, **Scaffolding** Equipment, Bracket Scaffolds, **Scaffolding** Labelling, **Pre-fab Scaffolding**; Erecting, Maintaining & Dismantling **Scaffolding** in accordance with the **British Standards Code of Practice 5973**; **Heavy Lifting** operations, Cantilevered Hoists, **Offshore** Operations, **Offshore** Construction, Basic **Offshore Safety** Induction & Emergency Training (**BOSIET**), **Onshore** Fabrication & **Offshore** Pipelaying & Hook-Up, **Crane** Inspection, **Crane** Operations, Oilfield Startup & Operation, Steel Fabrication, **ISO 45001**, **OSHA, ISO 9001, ISO 14001, OHSAS 18001** and **IMO (SOLAS)** Regulations. Mr. Burnip has greatly contributed in upholding the highest possible levels of safety for numerous International Oil & Gas projects, Generation Systems & Platform Revamp, LPG & Gas Compression, Marine, Offshore and Power Plant Construction. Currently, he is the **HSE Advisor** of Solvay wherein he is responsible in planning and implementation of the corporate safety program (OSHA codes).

During Mr. Burnip's long career life, he had successfully carried out numerous projects in **Europe, North America, South America, Southeast Asia, Middle East** and the **North Sea**. He had worked for Likpin Dubai, SADRA/DOT, **ZADCO, McDermott** International (USA, Qatar, Egypt, India, Oman, Dubai and Abu Dhabi), **PDO, Shell, ARAMCO**, Salman Field, Leman Offshore Gas Field, GEC, Harland & Wolff PLC Belfast in North Ireland, Howard Doris – Kishorn in Scotland, **Westinghouse** Electric in Brazil and South Korea and **Chevron** Oil in Scotland as the **Commissioning Project Engineer, Project & Safety Engineer, Estimating Engineer, Senior Instrument Engineer, Instrument Field Engineer, Lead Instrument Engineer, Instrument Engineer, Engineer, Emergency Response Training Manager, HSSE Manager, HSE Advisor, HSE Instructor, HSE Supervisor, Instrumentation Supervisor, Instrumentation Specialist, Project Coordinator, Instrumentation Technician** and **Tank Farm Instrumentation Technician**.

Mr. Burnip has a **Bachelor's** degree in **Business Studies** from the **Somerset University (UK)**. He is a **Certified/Registered Tutor** in **NEBOSH** Certificate in Environmental Management, **NEBOSH** International General Certificate, **NEBOSH** International Certificate in Fire Safety & Risk Management, **NEBOSH** Process Safety Management Certificate and **NEBOSH** International Oil & Gas Certificate; a **Certified Safety Auditor (SAC)**; a **Certified ISO 45001 Auditor**; an **Environmental Health and Safety Management Specialist** on Fall Protection, Elevated Structures, Material Handling, Trenching & Excavations; a **Welding Brazing Safety Technician**; a **Certified Safety Administrator (CSA)** - General Industry; a **Safety Manager/Trainer** – General Industry; a **Petroleum Safety Manager (PSM)** - Drilling & Servicing; a **Petroleum Safety Specialist (PSS)** - Drilling & Servicing; a **Safety Planning Specialist**; a **Safety Training Specialist**; a **Certified Instructor/Trainer**; a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and further holds a Certificate in **Mechanical Engineering Craft Practice** from the **City & Guilds of London Institute**; a **NEBOSH Level 3 Construction Certificate (UK)**; and holds a **Cambridge Teaching Certificate**. He is a well-regarded member of the **National Association of Safety Professionals**, the **Association of Cost Engineers (UK)**, **Institution of Occupational Safety & Health (TechIOSH)** and an **Associate Member of World Safety Organization**.

Further, he has conducted innumerable trainings, workshops and conferences worldwide.

**Course Program**

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

**Day 1**

0730 – 0800	Registration & Coffee
0800 – 0830	Welcome & Introduction
0830 – 1000	Element 1: Health, Safety & Environmental Management in Context

	<i>Learning from Incidents</i>
1000 - 1015	<i>Break</i>
1015 - 1215	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>Learning from Incidents (cont'd)</i>
1215 - 1315	<i>Lunch</i>
1315 - 1415	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>Hazards Inherent in Oil and Gas</i>
1415 - 1430	<i>Break</i>
1430 - 1720	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>Hazards Inherent in Oil and Gas (cont'd)</i>
1720 - 1730	<b>Recap</b>
1730	<i>End of Day One</i>

**Day 2**

0730 - 0830	<b>Homework Review (1 Hour)</b>
0830 - 1030	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>Risk Management Techniques Used in the Oil and Gas Industries</i>
1030 - 1045	<i>Break</i>
1045 - 1215	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>An Organization's Documented Evidence to Provide a Convincing and Valid Argument that a System is Adequately Safe</i>
1215 - 1315	<i>Lunch</i>
1315 - 1415	<b>Element 1: Health, Safety &amp; Environmental Management in Context (cont'd)</b> <i>An Organization's Documented Evidence to Provide a Convincing and Valid Argument that a System is Adequately Safe (cont'd)</i>
1415 - 1430	<b>Element 2: Hydrocarbon Process Safety 1</b> <i>Contractor Management</i>
1430 - 1445	<i>Break</i>
1445 - 1720	<b>Element 2: Hydrocarbon Process Safety 1 (cont'd)</b> <i>Process Safety Management (PSM)</i>
1720 - 1730	<b>Recap</b>
1730	<i>End of Day Two</i>

**Day 3**

0730 - 0830	<b>Homework Review (1 Hour)</b>
0830 - 1030	<b>Element 2: Hydrocarbon Process Safety 1 (cont'd)</b> <i>Role and Purpose of a Permit-to-Work System</i>
1030 - 1045	<i>Break</i>
1045 - 1215	<b>Element 2: Hydrocarbon Process Safety 1 (cont'd)</b> <i>Key Principles of Safe Shift Handover</i>
1215 - 1315	<i>Lunch</i>
1315 - 1430	<b>Element 2: Hydrocarbon Process Safety 1 (cont'd)</b>



	<i>Plant Operations and Maintenance</i>
1430 - 1445	<i>Break</i>
1445 - 1500	<b>Element 2: Hydrocarbon Process Safety 1 (cont'd)</b> <i>Start Up and Shut Down</i>
1500 - 1720	<b>Element 3: Hydrocarbon Process Safety 2</b> <i>Failure Modes</i>
1720 - 1730	<b>Recap</b>
1730	<i>End of Day Three</i>

#### **Day 4**

0730 - 0830	<b>Homework Review (1 Hour)</b>
0830 - 0930	<b>Element 3: Hydrocarbon Process Safety 2 (cont'd)</b> <i>Other Types of Failures</i>
0930 - 1030	<b>Element 3: Hydrocarbon Process Safety 2 (cont'd)</b> <i>Safety Critical Equipment Controls</i>
1030 - 1045	<i>Break</i>
1045 - 1215	<b>Element 3: Hydrocarbon Process Safety 2 (cont'd)</b> <i>Safe Containment of Hydrocarbons</i>
1215 - 1315	<i>Lunch</i>
1315 - 1430	<b>Element 3: Hydrocarbon Process Safety 2 (cont'd)</b> <i>Fire Hazards, Risks and Controls</i>
1430 - 1445	<i>Break</i>
1445 - 1530	<b>Element 3: Hydrocarbon Process Safety 2 (cont'd)</b> <i>Furnace and Boiler Operations</i>
1530 - 1720	<b>Element 4: Fire Protection and Emergency Response</b> <i>Fire and Explosion in the Oil and Gas Industries</i>
1720 - 1730	<b>Recap</b>
1730	<i>End of Day Four</i>

#### **Day 5**

0730 - 0830	<b>Homework Review (1 Hour)</b>
0830 - 1000	<b>Element 4: Fire Protection &amp; Emergency Response (cont'd)</b> <i>Emergency Response</i>
1000 - 1015	<i>Break</i>
1015 - 1045	<b>Element 4: Fire Protection &amp; Emergency Response (cont'd)</b> <i>Emergency Response (cont'd)</i>
1045 - 1145	<b>Element 5: Logistics &amp; Transport Operations</b> <i>Marine Transport</i>
1145 - 1245	<b>Element 5: Logistics &amp; Transport Operations (cont'd)</b> <i>Land Transport</i>

1245 - 1300	<b>Course Conclusion</b>
1300 - 1330	<i>Lunch</i>
1330 - 1400	<b>NEBOSH Exam Registration/Briefing</b>
1400 - 1600	<b>NEBOSH International Exam</b> <i>Handwriting Test (11 Questions)</i>
1600 - 1630	<i>Closing Ceremony</i>
1630	<i>End of Course</i>

**Practical Sessions**

This practical and highly-interactive course includes real-life case studies and exercises:-



**Course Coordinator**

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