

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: October 06-10, 2024/TBA Meeting Room, Pullman Doha West Bay Hotel, Doha, Qatar
 Session 2: November 17-21, 2024/TBA Meeting Room, Rotana Al Bandar Hotel, Dubai, UAE



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

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive "Haward Smart Training Kit" (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**

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. Participants must submit their complete applications minimum 15 working days prior to the scheduled exam date. We recommend that participants 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.

Course Fee

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| Doha | US\$ 6,000 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day. |
| Dubai | 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

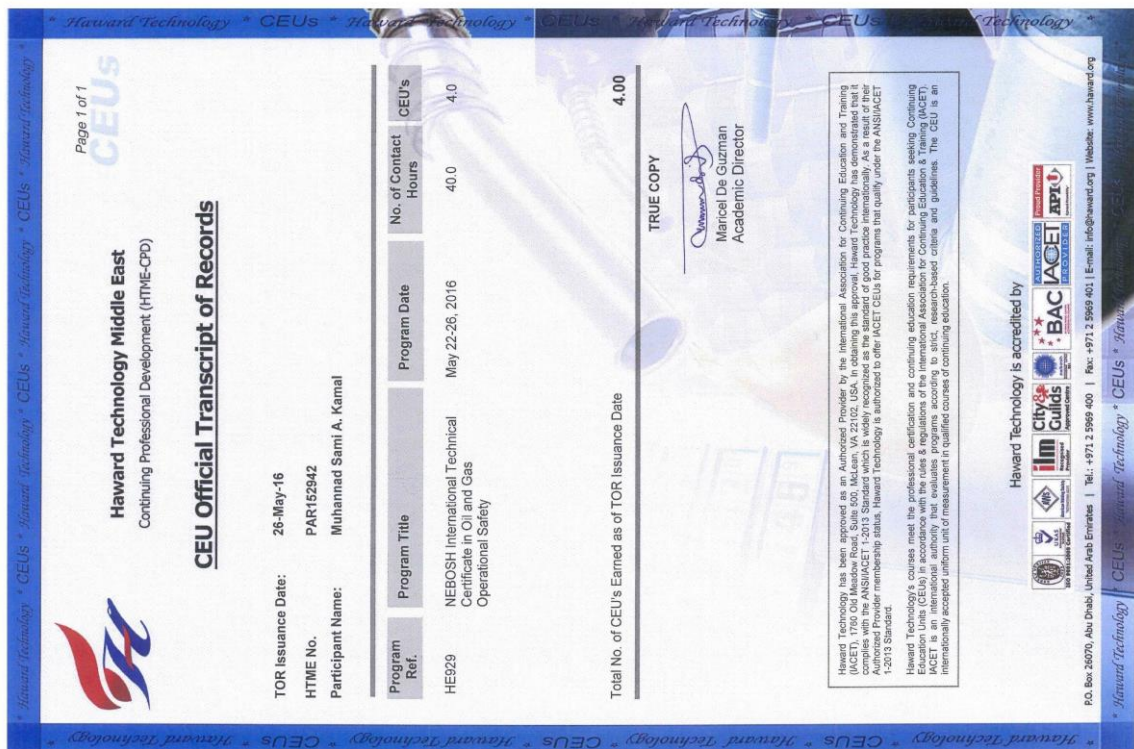
US\$ 170 per Delegate.

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. Mahdi Hashim, NEBOSH, IOSH, OSHA, CIEH, HABC, is a **Senior Safety Engineer** with over **20 years** of extensive experience within the **Oil & Gas, Refinery and Petrochemical** industries. He is a **NEBOSH Approved Instructor** for various certification programs. His expertise lies extensively in the areas of **NEBOSH Certificate in Fire Safety, NEBOSH International Technical Certificate in Oil and Gas Operational Safety, NEBOSH International General Certificate in Occupational Health & Safety, NEBOSH HSE Certificate in Process Safety Management, NEBOSH HSE Certificate in Health and Safety Leadership Excellence, NEBOSH Award in Health and Safety at Work, NEBOSH Environmental Awareness at Work Qualification, Process Safety Management, Health & Safety in the Workplace, IOSH Leading Safely, IOSH Managing Safely, Train-the-Trainer, Hazards & Risk Assessment, Control of Hazardous Substances, HAZOP Awareness, Advanced Hazard & Operability Study, Infection Prevention & Control, Hand & Power Tools Safety, Machine Guards Safety/Hand & Power Tools Safety, Safe Rigging & Lifting Tools, Lifting Equipment, Tools & Tackles, Safe Use of Tools & Equipment, Fire Fighting, Fire Fighter Rescue Missions, Fire Prevention & Safety, Applied Fire Risk Assessment, Active & Positive Fire Fighting, Fire & Gas Detection Systems, Fire Fighting & Rescue Operations, First Aid, Oil & Gas Firefighting Tactics, Advanced Storage Tank Fire, Fire Fighting Systems, Fire Proofing, Fire Truck Operation, Extinguishers & Hose Reels Operation, Approved Gas Tester, Gas Testing Equipment, Excavator and Fire & Security Management, Scaffolding Inspection & Fall Prevention, Safe Rigging & Lifting Tools, Advanced Rigging & Slings, Crane/Hoist Operation, Confined Space Entry & Rescue, Safety Supervision & Leadership, Basic Safety in Power Industry, Safety Awareness, Risk Mitigation & Crisis Management, Occupational Safety & Health Management System, Environmental Management & Technology (EMT), Struggles Management Strategies & Skills, Dealing with Difficult People and Creativity & Innovation.**

During his career life, Mr. Mahdi has gained his practical and field experience through his various significant positions and dedication as the **HSE Senior Trainer, HSE Supervisor/Trainer, HSE Manager, Regional HSEQ Training Manager, HSE Officer and Senior Instructor/Trainer** from various international companies like the Alghosabi Vocational Training Center, TEEKAY, Ramsis Engineering, Hertel, TABET Enterprises Co. and GPZ Overseas Ltd. & Construction Co.

Mr. Mahdi is an **Approved Tutor** for **NEBOSH International Technical Certificate in Oil and Gas Operational Safety, NEBOSH in Fire Safety, NEBOSH General Certificate in Occupational Health & Safety, NEBOSH Environmental Awareness at Work Qualification, NEBOSH HSE Certificate in Process Safety Management, NEBOSH HSE Certificate in Health & Safety Leadership Excellence, an Approved NEBOSH Practical Assessor and an Approved Tutor for HABC (Highfield Awarding Body for Compliance)**. Further, he is an **OSHA Authorized Trainer, Professional & Specialist, a Certified Charter Trainer for CIEH (Chartered Institute of Environmental Health) and a Certified Trainer for IOSH Leading Safely, IOSH Managing Safely, Train-the-Trainer and Award in Health & Safety in the Workplace (Level 1-4)**. Moreover, he is an active technical member of IOSH & BHSS and delivered numerous trainings, courses, seminars, conferences and workshops internationally.

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

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| 0730 – 0800 | <i>Registration & Coffee</i> |
| 0800 – 0830 | <i>Welcome & Introduction</i> |
| 0830 – 1000 | Element 1: Health, Safety & Environmental Management in Context <i>Learning from Incidents</i> |
| 1000 – 1015 | <i>Break</i> |
| 1015 – 1215 | Element 1: Health, Safety & Environmental Management in Context (cont'd) <i>Learning from Incidents (cont'd)</i> |
| 1215 – 1315 | <i>Lunch</i> |
| 1315 – 1415 | Element 1: Health, Safety & Environmental Management in Context (cont'd) <i>Hazards Inherent in Oil and Gas</i> |
| 1415 – 1430 | <i>Break</i> |
| 1430 – 1720 | Element 1: Health, Safety & Environmental Management in Context (cont'd) <i>Hazards Inherent in Oil and Gas (cont'd)</i> |
| 1720 – 1730 | Recap |
| 1730 | <i>End of Day One</i> |

Day 2

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

Day 3

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| 0730 – 0830 | Homework Review (1 Hour) |
| 0830 – 1030 | Element 2: Hydrocarbon Process Safety 1 (cont'd) Role and Purpose of a Permit-to-Work System |
| 1030 – 1045 | Break |
| 1045 – 1215 | Element 2: Hydrocarbon Process Safety 1 (cont'd) Key Principles of Safe Shift Handover |
| 1215 – 1315 | Lunch |
| 1315 – 1430 | Element 2: Hydrocarbon Process Safety 1 (cont'd) Plant Operations and Maintenance |
| 1430 – 1445 | Break |
| 1445 – 1500 | Element 2: Hydrocarbon Process Safety 1 (cont'd) Start Up and Shut Down |
| 1500 – 1720 | Element 3: Hydrocarbon Process Safety 2 Failure Modes |
| 1720 – 1730 | Recap |
| 1730 | End of Day Three |

Day 4

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

Day 5

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| 0730 – 0830 | Homework Review (1 Hour) |
| 0830 – 1000 | Element 4: Fire Protection & Emergency Response (cont'd) Emergency Response |
| 1000 – 1015 | Break |
| 1015 – 1200 | Element 4: Fire Protection & Emergency Response (cont'd) Emergency Response (cont'd) |
| 1200 – 1300 | Element 5: Logistics & Transport Operations Marine Transport |
| 1300 – 1415 | Element 5: Logistics & Transport Operations (cont'd) Land Transport |

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|-------------|-------------------------------------|
| 1415 - 1515 | Lunch |
| 1515 - 1530 | Course Conclusion |
| 1530 - 1545 | POST-TEST |
| 1545 - 1600 | Presentation of Course Certificates |
| 1600 - 1630 | Closing Ceremony |
| 1630 | End of Course |

Day 6: As per NEBOSH Exam Schedule

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| 0730 - 0800 | NEBOSH Exam Registration/Briefing |
| 0800 - 1300 | Unit PSM1 Examination |
| 1300 | End of Exam |

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward’s Portal. Each participant will be given a username and password to log in Haward’s Portal for the MOCK Exam during the 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Practical Sessions

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



Course Coordinator

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