

COURSE OVERVIEW HE1130

NEBOSH Certificate in Process Safety Management

Course Title

NEBOSH Certificate in Process Safety Management

Course Date/Venue

Session 1: February 16-20, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar
 Session 2: August 03-07, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar

Course Reference

HE1130

Course Duration/Credits

Training: Five days/2.8 CEUs/28 PDHs
 Exam: As per NEBOSH Exam schedules



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.

The NEBOSH HSE Certificate in Process Safety Management qualification is designed to provide a sound breadth of knowledge and understanding that enables qualification holders to contribute to the management of process safety risks. This qualification builds on the understanding already gained by studying the NEBOSH National or International General Certificate in Occupational Health and Safety.



This qualification aims to provide holders with the knowledge and understanding of Process Safety Management to ensure that they can contribute to the effective management of process safety risks. When things go wrong in the process industry the results can be catastrophic. This has been evidenced by incidents in the past which have led to loss of life and many billions of US dollars' worth of damages. The Deepwater Horizon incident which tragically led to 11 people losing their lives and the total cost to BP was in the region of \$62 billion.



The process safety industry is high hazard so having qualified people to manage activities within the industry will lead to safer workplaces. This will help to prevent loss of life but will also help to protect valuable assets and helps organizations avoid prosecution and ultimately loss of reputation.

This course is designed to provide participants with a detailed and up-to-date overview of NEBOSH process safety management. It covers the meaning of process safety and how it differs from personal safety; the role of leadership in process safety management, the purpose of organizational learning; the benefits, limitations, types of worker participation and engagement; the purpose and importance of establishing a process safety management system and its key elements; the common risk management techniques used in process industries; asset management and maintenance strategies for process plant; and the role, purpose and features of a permit-to-work, the key principles of safe shift handover and the principles of selecting, assessing and managing contractors.

Further, the course will also discuss the purpose and requirements of standard operating procedures; the controls that shall be adopted to control the safe start-up and shutdown of process plant including the necessity for performance standards for safety critical systems, equipment and the concept of 'FARSI'; the hazards and controls associated with the use of steam and water as well as electricity/static electricity within the process industries; the physical forms of dangerous substances and how these can determine process risk; and the hazards presented by chemical reactions and the protective measures used to mitigate the consequences of a thermal runaway reaction including the hazards and controls available for the bulk storage of dangerous substances.

During this interactive course, participants will learn the fire and explosion hazards relating to process industries; the appropriate control measures to minimize the effects of fire and explosion in the process industries; how dusts have the potential to explode; the commonly used control measures adopted to prevent and minimize explosion; and the purpose and features of an emergency plan and the requirements for the implementation.

The syllabus consists of one unit (Unit PSM1) that is divided into four elements. The Unit is a taught unit assessed by 90 minutes written examination. The examination consists of 40 multiple-choice questions. All questions are compulsory. Candidate scripts are marked by external examiners appointed by NEBOSH.

Course Objectives

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

- Achieve the NEBOSH HSE Certificate in Process Safety Management
- Define the meaning of process safety and how it differs from personal safety
- Explain the role of leadership in process safety management, the purpose of organizational learning, the sharing of lessons learnt and sources of information and how 'change' shall be managed to effectively reduce risks to people and plant
- Identify the benefits, limitations, types of worker participation and engagement and what is meant by competence and its importance to process safety
- Discuss the purpose and importance of establishing a process safety management system and its key elements
- Recognize the common risk management techniques used in process industries

- Carryout asset management and maintenance strategies for process plant
- Explain the role, purpose and features of a permit-to-work, the key principles of safe shift handover and the principles of selecting, assessing and managing contractors
- Identify the purpose and requirements of standard operating procedures
- Implement the controls that shall be adopted to control the safe start-up and shutdown of process plant including the necessity for performance standards for safety critical systems, equipment and the concept of 'FARSI'
- Recognize the hazards and controls associated with the use of steam and water within the process industries as well as the hazards and controls associated with electricity/static electricity within the process industries
- Discuss the physical forms of dangerous substances and how these can determine process risk
- Illustrate the hazards presented by chemical reactions and the protective measures used to mitigate the consequences of a thermal runaway reaction including the hazards and controls available for the bulk storage of dangerous substances
- Explain fire and explosion hazards relating to process industries and employ the appropriate control measures to minimize the effects of fire and explosion in the process industries
- Recognize how dusts have the potential to explode and commonly used control measures adopted to prevent and minimize explosion
- Identify the purpose and features of an emergency plan and the requirements for the implementation

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 process safety management for supervisors, newly appointed managers, junior managers, safety representatives and newly qualified health and safety advisors within the process industries.

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.

Accommodation

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

Course Certificate(s)

- (1) NEBOSH HSE Certificate in Process Safety Management 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:-

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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 **2.8 CEUs** (Continuing Education Units) or **28 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. Danie Martin, is a **Senior HSSE Consultant** with extensive years of experience within **Oil, Gas, Refinery and Petrochemical** industries. His wide experience covers **Security Risk Management & Managing Risk in Process Plant, Risk Assessment & Hazard Identification, Hazardous Materials (HAZMAT), Hazard Communication (HAZCOM), Hazard Recognition & Assessment, Risk Control, Cryogenics, MSDS, Liquefied Natural Gas, Hazard Monitoring Techniques, Environmental Pollution Prevention, Hazardous Classification, Packaging & Labelling, Chemical Transportation, Waste Management, Chemical Spill Clean Up, Risk Assessments, Safety & Emergency Plans, Working at Heights, Firefighting, Rescue & Operation, Fall Protection, HSSE Emergency Response & Crisis Management Operations, Confined Space Entry, Construction Health & Safety, HSSE Principles & Practices, HSE Quantitative Risk Assessment (QRA), Root Cause Analysis & Techniques, Hazardous Materials & Chemicals Handling, Chemical Spills, Safety Precaution & Response Action Plan, PSM, PHA, HAZOP, HAZID, Hazard & Risk Assessment, Task Risk Assessment (TRA), Incident Command, Accident & Incident Investigation, Emergency Response Procedures, Job Safety Analysis (JSA), Behavioural Based Safety (BBS), Work Permit & First Aid, Emergency Response, H₂S, ERP Preparation, Project HSE Management System, Health & Hygiene Inspection, PTW Control, Process Modules Fire & Gas Commissioning, Ergonomics, Lockout/Tagout, Fire Safety & Protection and Spill Prevention & Control.**

During his career life, Mr. Martin has gained his practical and field experiences through his various significant positions and dedication as the **Safety Manager, Acting Safety Manager, SHE Supervisor, HSES Auditor, Senior Trainer/Lecturer, HSE Advisor, Principal Safety Officer, Site Safety Officer**, Doctor's Assistant and **Safety Officer** from various international companies like Data Matrix, **Technip France, Foster Wheeler, Kwazulu Private Ambulance Service, Thames Valley Hospital, Sasol and Sasolburg.**

Mr. Martin has a **Bachelor's** degree and holds a **National Diploma in Safety Management**. Further, he is a **Certified Instructor/Trainer** and a well-regarded member of the **Health Professions Council of South Africa (AEA)**, the **Institution of Occupational Safety and Health (IOSH)** and the **South African Council for Project and Construction Management Professions (SACPCMP)**. He has further delivered numerous trainings, courses, seminars, workshops and conferences worldwide.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

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

Course Fee

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

Exam Fee

US\$ 215 per Delegate + VAT

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 – 0845	Welcome & Introduction
0845 – 0930	Unit PSM 1: Process Safety Management: Element 1: Process Safety Leadership Process Safety Management Meaning • Process Safety Leadership
0930 – 0945	Break
0915 – 1100	Unit PSM 1: Process Safety Management: Element 1: Process Safety Leadership (cont'd) Organizational Learning • Management of Change
1100 – 1230	Unit PSM 1: Process Safety Management: Element 1: Process Safety Leadership (cont'd) Worker Engagement • Competence
1230 – 1245	Break
1245 – 1420	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk Establishing a Process Safety Management System
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0900	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk (cont'd) Risk Management Techniques Used Within the Process Industries
0900 – 0915	Break
0915 – 1100	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk (cont'd) Asset Management & Maintenance Strategies
1100 – 1200	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk (cont'd) Role & Purpose & Features of a Permit-to-Work System
1200 – 1215	Break
1215 – 1420	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk (cont'd) Safe Shift Handover
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0835	Unit PSM 1: Process Safety Management: Element 2: Management of Process Risk (cont'd) Contractor Management
0835 – 0930	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control Operating Procedures
0930 – 0945	Break
0945 – 1100	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Safe Start-Up & Shut-Down
1100 – 1200	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Safety Critical Performance Standards
1200 – 1215	Break
1215 – 1420	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Utilities
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0900	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Electricity/Static Electricity
0900 – 0915	Break
0915 – 1100	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Dangerous Substances
1100 – 1230	Unit PSM 1: Process Safety Management: Element 3: Process Safety Hazard Control (cont'd) Reaction Hazards • Bulk Storage Operations
1230 – 1245	Break
1245 – 1420	Unit PSM 1: Process Safety Management: Element 4: Fire & Explosion Protection Fire & Explosion Hazards
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0830	Unit PSM 1: Process Safety Management: Element 4: Fire & Explosion Protection (cont'd) Fire & Explosion Control
0830 – 0845	Break
0845 – 1045	Unit PSM 1: Process Safety Management: Element 4: Fire & Explosion Protection (cont'd) Dust Explosions
1045 – 1100	Break

1100 – 1235	Unit PSM 1: Process Safety Management: Element 4: Fire & Explosion Protection (cont'd) <i>Emergency Preparedness</i>
1235 - 1350	MOCK EXAM
1350 – 1405	POST-TEST
1405 - 1420	Course Conclusion
1420 – 1430	<i>Closing Ceremony</i>
1430	<i>Lunch & End of Course</i>

Day 6: As per NEBOSH Exam Schedule

0730 – 0800	NEBOSH Exam Registration/Briefing
0800 – 1300	Unit PSM1 Examination
1300	<i>End of Exam</i>

NEBOSH Examination

Once Haward Technology has registered you to an examination, they will send you an Examination Entry Confirmation that includes your learner number, and important information relating to your examination and results process. Please ensure that you check your name is spelt correctly and report this to your learning partner and NEBOSH if any changes are required.

The Examination Entry Confirmation is essential to gain entry to the examination room, you will need to show a form of photographic identification to the invigilator and then sign the Examination Entry Confirmation. Please contact your learning partner if you have not received your Examination Entry Confirmation.

Assessment Date	Result Notification Date
Wednesday 24 July 2024	Wednesday 14 August 2024
Wednesday 21 August 2024	Thursday 12 September 2024
Wednesday 25 September 2024	Wednesday 16 October 2024
Wednesday 23 October 2024	Wednesday 13 November 2024
Wednesday 20 November 2024	Wednesday 11 December 2024
Wednesday 11 December 2024	Friday 10 January 2025
Wednesday 22 January 2025	Wednesday 12 February 2025
Wednesday 26 February 2025	Wednesday 19 March 2025
Wednesday 26 March 2025	Wednesday 16 April 2025
Wednesday 23 April 2025	Thursday 15 May 2025
Wednesday 28 May 2025	Wednesday 18 June 2025
Wednesday 25 June 2025	Wednesday 16 July 2025
Wednesday 23 July 2025	Wednesday 13 August 2025
Wednesday 27 August 2025	Wednesday 17 September 2025
Wednesday 24 September 2025	Wednesday 15 October 2025
Wednesday 29 October 2025	Wednesday 19 November 2025
Wednesday 26 November 2025	Wednesday 17 December 2025
Wednesday 17 December 2025	Monday 19 January 2026

Practical Sessions

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



Course Coordinator

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