COURSE OVERVIEW HE0618
Introduction to COMAH (Control of Major Accident Hazards)

Course Title
Introduction to COMAH (Control of Major Accident Hazards)

Course Date/Venue
Session 1: May 04-08, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
Session 2: October 13-17, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
HE0618

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

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 course is designed to provide participants with up-to date overview of Control of Major Accident Hazards (COMAH). It covers the risks associated with ageing industrial plants; the COMAH and reviewing of past incidents and accidents; the potential accidents, site reviews and hazards; the COMAH risks and the qualitative and quantitative risk assessment; the FMEA, what-if, FTA and accident investigation; and the process safety management and bow-tie analysis.

During the interactive course, participants will learn the COMAH report and action planning following a COMAH study; the sustainability and improvements to facilities; the new technologies and modifications along with their impact; the proper training and communication of identified COMAH risks; the COMAH management systems and emergency management; and the PSM auditing and governance.

Course Objectives

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

- Apply and gain a comprehensive knowledge on control of major accident hazards (COMAH)
- Recognize the risks associated with ageing industrial plants
- Discuss COMAH and review past incidents and accidents
- Identify potential accidents, site reviews and hazards
- Specify COMAH risks and employ qualitative and quantitative risk assessment as well as FMEA, what-if, FTA and accident investigation
- Carryout process safety management and bow-tie analysis
- Prepare COMAH report and action planning following a COMAH study and determine sustainability and improvements to facilities
- Equip new technologies and identify the modifications along with their impact
- Employ proper training and communication of identified COMAH risks, COMAH management systems and emergency management
- Manage when accident happen, interact with authorities, employees, public community and neighbors
- Assess PSM auditing and governance

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 an overview of all significant aspects and considerations of control of major accident hazards (COMAH) for HSE engineers, safety supervisors and other technical staff.

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 Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- 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.

- 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 **3.0 CEUs** (Continuing Education Units) or **30 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.

Course Fee

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.

Accommodation

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

Course Instructor

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

Mr. John Burnip, EHS, SAC, STS, NEBOSH, TechIOSH, is a **NEBOSH Approved Instructor** and a **Senior HSE Consultant** with over **30 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**, 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**), **Confined Space Entry**, **Fall Protection**, **Work Permit & First Aid**, **Emergency Response**, H_2S, ERP Preparation, 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, **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**, **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** and in **NEBOSH International General Certificate**, a **Certified Safety Auditor** (SAC), **Environmental Health and Safety Management Specialist** on Fall Protection, Elevated Structures, Material Handling, Trenching & Excavations, and 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 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 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0900	***The Risks Associated with Ageing Industrial Plants***
0900 – 0915	*Break*
0915 – 1030	***COMAH Overview***
1030 – 1200	***Reviewing Past Incidents & Accidents***
1200 – 1215	*Break*
1215 – 1330	***Identifying Potential Accidents*** *Site Reviews*
1330 – 1420	***Hazard Identification***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0900	***Specific COMAH Risks***
0900 – 0915	*Break*
0915 – 1030	***Qualitative Risk Assessment***
1030 – 1200	***Quantitative Risk Assessment***
1200 – 1215	*Break*
1215 – 1330	***FMEA, What-if and FTA***
1330 – 1420	***Accident Investigation***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0900	***Process Safety Management Overview***
0900 – 0915	*Break*
0915 – 1030	***Bow-Tie Analysis***
1030 – 1200	***Preparing a COMAH Report***
1200 – 1215	*Break*
1215 – 1330	***Action Planning Following a COMAH Study***
1330 – 1420	***Sustainability & Improvements to Facilities***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0900	***New Technologies, Modifications and Their Impact***
0900 – 0915	*Break*
0915 – 1030	***Training & Communication of Identified COMAH Risks***
1030 – 1200	***COMAH Management Systems (MHI)***
1200 – 1215	*Break*
1215 – 1420	***Emergency Management***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0900	***When Accidents Happen?***
0900 – 0915	*Break*
0915 – 1030	***Interaction with Authorities, Employees & Public*** *Community*
1030 – 1200	***Interaction with Authorities, Employees & Public (cont'd)*** *Neighbours*
1200 – 1215	*Break*
1215 – 1345	***PSM Auditing & Governance***
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

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

Course Coordinator

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