

COURSE OVERVIEW HE1717
HAZWOPER: Hazardous Waste Operations and Emergency Response

Course Title

HAZWOPER: Hazardous Waste Operations and Emergency Response

Course Date/Venue

September 15-19, 2024/Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA

Course Reference

HE1717

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.



This course is designed to provide participants with a detailed and up-to-date overview of Hazardous Waste Operations and Emergency Response (HAZWOPER). It covers the standard and scope of HAZWOPER and relevant OSHA regulations, including 29 CFR 1910.120; the elements of an effective health and safety program, planning and implementation; the chemical, biological, and physical hazards in hazardous waste operations; the risks associated with hazardous substances; the types, selection criteria, proper use and maintenance of PPE; and the hazardous waste sites, preliminary assessment and site inspection.



Further, the course will also discuss the chemical properties, toxicology, and exposure routes; the techniques and tools for air monitoring, including direct-reading instruments and sampling methods; the respiratory protection, decontamination procedure and site control; the methods and best practices for handling, storage, and transportation; the techniques for safe drum handling, sampling methods, and considerations; the emergency response plans for hazardous waste operations; and the techniques and equipment used for containing spills of hazardous substances.

During this interactive course, participants will learn to manage the incidents involving unidentified hazardous substances; the ICS structure, roles, and responsibilities in emergency response; the hazardous waste and strategies for minimizing waste generation; the environmental laws and regulations, remediation technologies and water and soil decontamination; the EPCRA requirements and the importance of community awareness and preparedness; the health effects of exposure to hazardous substances; the elements of a medical surveillance program for workers exposed to hazardous substances; managing stress during emergency response operations and preventing heat and cold stress in hazardous waste operations; and the safety procedures and regulations for working in confined spaces.

Course Objectives

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

- Apply and gain an in-depth knowledge on hazardous waste operations and emergency response (HAZWOPER)
- Discuss the standard and scope of HAZWOPER and review relevant OSHA regulations, including 29 CFR 1910.120
- Recognize the elements of an effective health and safety program, including planning and implementation
- Identify the chemical, biological, and physical hazards in hazardous waste operations
- Assess the risks associated with hazardous substances and identify the types, selection criteria, proper use and maintenance of PPE
- Evaluate hazardous waste sites, including preliminary assessment and site inspection
- Explain the chemical properties, toxicology, and exposure routes
- Apply techniques and tools for air monitoring, including direct-reading instruments and sampling methods
- Carryout respiratory protection, decontamination procedure and site control
- Employ methods and best practices for handling, storage, and transportation as well as the techniques for safe drum handling, sampling methods, and considerations
- Develop and implement emergency response plans for hazardous waste operations
- Implement various techniques and equipment used for containing spills of hazardous substances
- Manage incidents involving unidentified hazardous substances and recognize the ICS structure, roles, and responsibilities in emergency response
- Identify and classify hazardous waste and implement strategies for minimizing waste generation
- Discuss the environmental laws and regulations, remediation technologies and water and soil decontamination
- Identify the EPCRA requirements and the importance of community awareness and preparedness

- Analyze the health effects of exposure to hazardous substances and list the elements of a medical surveillance program for workers exposed to hazardous substances
- Manage stress during emergency response operations and recognize and prevent heat and cold stress in hazardous waste operations
- Implement safety procedures and regulations for working in confined spaces

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 hazardous waste operations and emergency response (HAZWOPER) for general site workers engaged in activities involving hazardous substances and hazardous waste.

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

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.

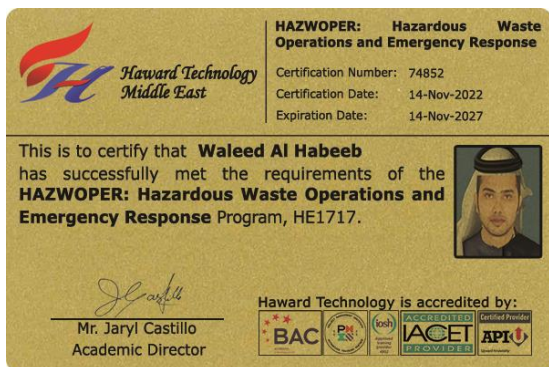
Course Certificate(s)

- (1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-



- (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.

* Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *



Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEUs

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-22

HTME No. 74852

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE1717	HAZWOPER: Hazardous Waste Operations and Emergency Response	November 10-14, 2022	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY



Jaryl Castillo
Academic Director

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













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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -


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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 **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.

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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**, **PHA, HAZOP, HAZCOM, HAZMAT, HAZWOPER, HAZID, Hazard & Risk Assessment, Emergency Response Procedures Behavioural Based Safety (BBS), Confined Space Entry, Fall Protection, Emergency Response, H₂S, Safety Management System (ISO 45001), Accident/Incident Investigation System and Report PSM, Risk Assessment, SCE FMEA Failure Investigations, Site Management Safety Training (SMSTS), Occupational Health & Safety and Industrial Hygiene, Crisis Management & Damage Control in Oil & Gas Industry, Enhancing HSE Safety Performance & Effectiveness, Overhead & Gantry Crane Safety, HSSE Principles & Practices Advanced, Lifting & Rigging Equipment Lifting Tackles Inspection License/Relicense, API 780 Security Risk Assessment Methodology for Petroleum & Petrochemical, Advanced Process Safety Management with PHA, Quantitative and Qualitative Risk Assessment, IADC/API Mobile Drilling Rig Inspections, Maintenance and Audits, H2s Training and Rescue with Respiratory Equipment, Job Safety Analysis (JSA), 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, Prefab 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 Delta Offshore Group, Solvay Asia Pacific, 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, 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 workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 15th of September 2024

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to HAZWOPER: Overview of the HAZWOPER Standard, Its Scope & Objectives
0930 – 0945	Break
0945 – 1030	OSHA Regulations: Detailed Review of Relevant OSHA Regulations, including 29 CFR 1910.120
1030 – 1130	Health & Safety Program: Elements of an Effective Health and Safety Program, including Planning and Implementation
1130 – 1215	Hazard Recognition: Identifying Chemical, Biological & Physical Hazards in Hazardous Waste Operations
1215 – 1230	Break
1230 – 1330	Risk Assessment Techniques: Methods for Assessing Risks Associated with Hazardous Substances
1330 – 1420	Personal Protective Equipment (PPE): Types of PPE, Selection Criteria & Proper Use and Maintenance
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 16th of September 2024

0730 – 0830	Site Characterization & Analysis: Procedures for Evaluating Hazardous Waste Sites, including Preliminary Assessment & Site Inspection
0830 – 0930	Chemical Hazards: Chemical Properties, Toxicology, and Exposure Routes
0930 – 0945	Break
0945 – 1100	Air Monitoring & Instrumentation: Techniques & Tools for Air Monitoring, including Direct-Reading Instruments & Sampling Methods
1100 – 1215	Respiratory Protection: Types of Respirators, Selection Criteria, Fit Testing, and Maintenance
1215 – 1230	Break
1230 – 1330	Decontamination Procedures: Decontamination Strategies, Levels & Methods
1330 – 1420	Site Control: Establishing Zones (Exclusion, Contamination Reduction & Support Zones) and Implementing Site Control Strategies
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 17th of September 2024

0730 – 0830	Safe Handling of Hazardous Materials: Methods & Best Practices for Handling, Storage, and Transportation
0830 – 0930	Drum Handling & Sampling: Techniques for Safe Drum Handling, Sampling Methods & Considerations
0930 – 0945	Break
0945 – 1100	Emergency Response Planning: Developing & Implementing Emergency Response Plans for Hazardous Waste Operations

1100 – 1215	Spill Containment Methods: Techniques & Equipment Used for Containing Spills of Hazardous Substances
1215 – 1230	Break
1230 – 1330	Dealing with Unknowns: Strategies for Managing Incidents Involving Unidentified Hazardous Substances
1330 – 1420	Incident Command System (ICS): Understanding the ICS Structure, Roles, & Responsibilities in Emergency Response
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4: Wednesday, 18th of September 2024

0730 – 0830	Hazardous Waste Classification: Criteria for Identifying & Classifying Hazardous Waste
0830 – 0930	Waste Minimization & Management: Strategies for Minimizing Waste Generation & Proper Waste Management Techniques
0930 – 0945	Break
0945 – 1100	Environmental Laws & Regulations: Review of Key Environmental Legislation Affecting Hazardous Waste Management (RCRA, CERCLA/Superfund, etc.)
1100 – 1215	Remediation Technologies: Overview of Technologies & Methods for Environmental Cleanup & Remediation
1215 – 1230	Break
1230 – 1330	Water & Soil Decontamination: Techniques for Decontaminating Water & Soil Impacted by Hazardous Substances
1330 – 1420	Community Right-to-Know & Emergency Planning: EPCRA Requirements and the Importance of Community Awareness & Preparedness
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5: Thursday, 19th of September 2024

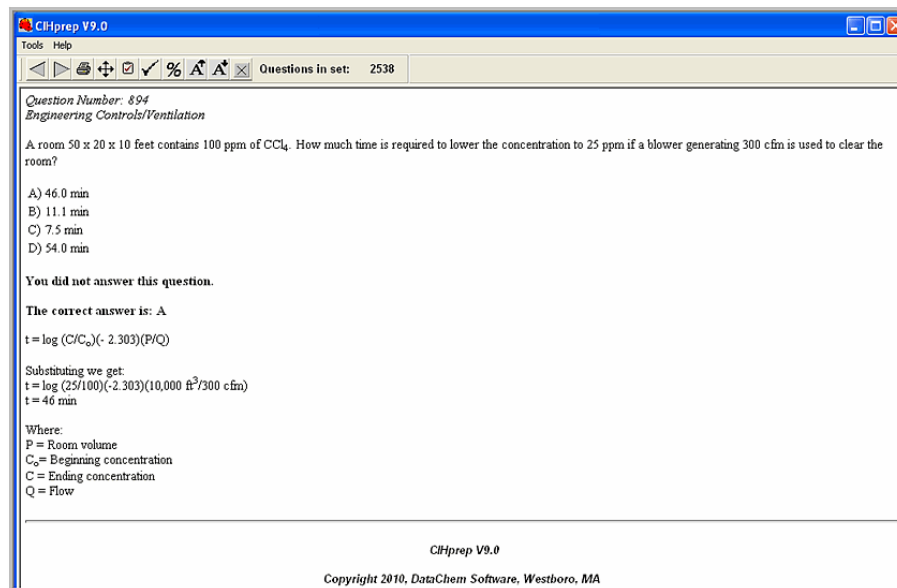
0730 – 0830	Toxicology & Health Effects: The Health Effects of Exposure to Hazardous Substances
0830 – 0930	Medical Surveillance Programs: Elements of a Medical Surveillance Program for Workers Exposed to Hazardous Substances
0930 – 0945	Break
0945 – 1100	Stress Management in Emergency Situations: Techniques for Managing Stress During Emergency Response Operations
1100 – 1230	Heat & Cold Stress: Recognizing & Preventing Heat & Cold Stress in Hazardous Waste Operations
1230 – 1245	Break
1245 – 1300	Confined Space Entry: Safety Procedures & Regulations for Working in Confined Spaces
1300 – 1315	Course Conclusion
1315 – 1415	COMPETENCY EXAM
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the state-of-the-art “Industrial Hygiene Virtual Laboratory Simulator” and “CIHprep V9.0 Simulator”.



Industrial Hygiene Virtual Laboratory Simulator



CIHprep V9.0 Simulator

Course Coordinator

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