

COURSE OVERVIEW HE0070 Hazardous Waste Management & Pollution Prevention

Course Title

Hazardous Waste Management & Pollution Prevention

Course Reference

HE0070

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue

Session(s)	Date	Venue
1	February 23-27, 2025	Slaysel 02 Meeting Room, Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait
2	May 25-29, 2025	Al Khobar Meeting Room, Hilton Garden Inn, Al Khobar, KSA
3	November 09-13, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Description



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



This course provides an excellent overview of mastering the management of hazardous waste materials as well as preventing contamination of the environment. This knowledge makes participants aware of the regulatory aspects of pollution and the handling of hazardous waste materials within their plants. It also allows them to reduce the amount of hazardous waste produced and save money through preventing personal injury and preventing or limiting the effects of accidental pollution.



At the completion of the course, participants will be able to identify the potential sources of pollution in the workplace; apply systematic techniques for preventing contamination and pollution; operate and employ systematic techniques for handling hazardous waste materials; detect and measure the incidence of contamination; manage hazardous waste materials effectively and efficiently; as well as apply contingency planning and deal with emergencies in a professional manner.





















Course Objectives

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

- Manage hazardous waste and prevent contamination of the environment
- Identify the potential sources of pollution in the workplace
- Apply systematic techniques for preventing contamination and pollution
- Operate and employ systematic techniques for handling hazardous waste materials
- Detect and measure the incidence of contamination
- Manage hazardous waste materials effectively and efficiently
- Apply contingency planning and deal with emergencies

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 and materials for the operations, production, maintenance and HSE departments dealing with hazardous waste and materials management and pollution prevention. Governmental & regulatory authorities, water & sewage treatment departments, municipalities and universities and academic professors and researchers will also benefit from the course.

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

















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

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 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. Nikolas Karnavos, MSc, BSc, is a Senior HSE Consultant with over 35 years of extensive experience within the Oil, Gas, Refinery and Petrochemical industries. His expertise widely covers in the areas of Fire Fighter Rescue Missions, Active and Positive Fire Fighting, Fire & Gas Detection Systems, Fire Protection, Oil & Gas Firefighting Tactics, Fire & Security Management, Applied Fire Risk Assessment, Fire Fighting Equipment Inspection, Fire Fighting for Chemical Substances, Fire Truck Operation, Fire Fighting Systems, Fire Proofing, Lifting & Rigging Equipment, Lifting Tackles Inspection

License/Relicense, Lifting Operations & Lifting Equipment Regulations (LOLER), Safe Rigging & Lifting Tools, Scaffolding, Rigging & Lifting, Slinging, Crane/Hoist Operation, Material Handling, Environmental Management & Technology (EMT), Environmental & Waste Management, Environmental Management & Technology, Environmental Monitoring & Modelling, Environmental Impact Assessment (EIA), Environmental Assessment & Planning, Environmental Enforcement & Compliance, Task Risk Management, Task Risk Analysis, Risk Assessment Facilitation, Confined Space Safety, Basic First Aid, Rescue Operations in Hazardous Locations, Gas Emergencies & Gas Escape, Environmental Awareness, Chemical Handling Spillages & Crisis, Gas Testing, OSHA General Certificate in Health & Safety, Respiratory Equipment, Self-Contained Breathing Apparatus (SCBA), Donning & Doffing Maintenance, H₂S Awareness and Accident & Incident Investigation. Further, he is also well-versed in Environmental Management System (ISO 14001), QMS (ISO 17025), OSHA, Oil Spill Management, Industrial Hygiene, Air Quality Management, Carbon Footprint, Environmental Impact Analysis, Hazardous Waste Management, HAZMAT & HAZCOM, Environmental Impact & Life Cycle Assessments, Wastewater Treatment, Oilfield Water Treatment, Treating & Handling Oily Water, Industrial Water Treatment in Refineries & Petrochemical Plants, Water Pollution Control, Reverse Osmosis Treatment Technology and Chlorination System, Laboratory Control of a Wastewater Treatment Plant, Environmental Online Analyzers (Air & Water), Gas Chromatography and various instrumental methods of analysis such as Water Analysis & Quality Control, Water and Wastewater Chemical Analysis, Statistical Data and Laboratory Analysis, Gas Analysis, Qualitative Fuel Analysis, Environmental Chemical Analysis, Laboratory Environmental Analysis, Process Water and Wastewater Effluents, Oily Sludge Treatment, Atomic Absorption and Spectroscopic Methods in Analytical Chemistry, Analytical Method Development and Methods of Environmental Measurements (Water, Air, Liquid & Solid Wastes). He is further a Certified Trainer where-in he is delivering trainings and consultancies for trainers for so many years, a Verifier & Assessor and a Program Designer & Developer.

Mr. Karnavos was the Laboratory Manager of Exxon wherein he was responsible for ISO 17025 certification, upgrading laboratory equipment in refinery, petrochemical and polypropylene plants, upgrading and extending LIMS, handling the transition plan process of the existing laboratory to a new as well as formulating and executing the plans for applied research and technology transfer. During his career life, he had occupied several significant positions as the Laboratory Analyst, Laboratory Professor, Senior Fire Instructor, Quality Manager, Partner & Managing Director, Environmental Engineer, Process Engineer, Environmental Management Corporate Department Head and Quality Control & Plastics Application Head with different international companies like the AQUACHEM, Hellenic Petroleum (EXXON) and Technological Institute.

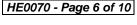
Mr. Karnavos holds a Master degree in Chemical Engineering and Bachelor degrees in Mechanical Engineering and Petroleum Engineering from the Aristotelian University of Thessaloniki, Technological Institute and KATEE Kavala respectively. He is an Accredited Environmental Auditor from the IEMA, an Accredited Trainer for the Organization for the Certifications & Vocational Guidance (EOPPEP), a Certified Instructor/Trainer and a Certified Internal Verifier/Assessor/Trainer by the Institute of Leadership & Management (ILM). Further, he is the President of Greek Association of Chemical Engineers and an active member of various professional engineering bodies internationally like the IEMA, Technical Chamber of Greece and the CONCAWE. He also published numerous books and scientific papers and delivered various trainings and workshops 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

Day 1		
0730 - 0800	Registration & Coffee	
0800 - 0815	Welcome & Introduction	
0815 - 0830	PRE-TEST	
0830 – 0900	Introduction	
	Course Objectives • Definitions	
0900 - 1000	Basic Concepts	
0300 - 1000	Pollution Control Theory • Cleaner Technologies • Pollution Control Techniques	
1000 - 1015	Break	
1015 - 1100	Toxicology	
1013 - 1100	Basic Toxicology • Case Studies in Environmental Health • Dose - Response	
1100 - 1130	Video & Case Study	
1130 – 1215	Toxicology (cont'd)	
1130 - 1213	Risk	
1215 – 1315	MSDS	
1213 - 1313	MSDS Overview • Reading and using MSDS	
1315 - 1330	Break	
1330 - 1400	MSDS (cont'd)	
1330 - 1400	Handling Storage • Hazardous Ingredients	
1400 – 1420	Video & Case Study	
1420 - 1430	Recap	
	Using this Course Overview, the Instructor(s) will Brief Participants about the	
	Topics that were Discussed Today and Advise Them of the Topics to be Discussed	
	Tomorrow	
1430	Lunch & End of Day One	

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0730 - 0830	MSDS Regulatory Levels	
	Health Based Exposure Levels • Fire and Explosion Labeling	
	Hazardous Waste Characterization	
0830 - 0930	Hazard Communication Program • Supervisor Duties • Accident Reporting • Waste	
	Handling	
0930 - 0945	Break	
0045 1120	Hazardous Waste Characterization (cont'd)	
0945 – 1130	Chemical Safety Awareness • Gasses • Flammable Substances	
1120 1220	Hazardous Waste Characterization (cont'd)	
1130 – 1230	Fly Ash Management • Handling Substances • Storage of flammable materials	
1230 - 1245	Break	
1245 - 1420	Video & Case Study	
1420 - 1430	Recap	
	Using this Course Overview, the Instructor(s) will Brief Participants about the	
	Topics that were Discussed Today and Advise Them of the Topics to be Discussed	
	Tomorrow	
1430	Lunch & End of Day Two	





















Day 3

	Personal Safety		
0730 - 0930	Choosing Personal Protective Equipment • Monitoring Hazardous Waste		
	Environments • Levels of Safety		
0930 - 0945	Break		
0945 – 1100	Pollution/Contamination Prevention Procedures		
	Pollution Reduction Zones • Decontamination Procedures • Emergency Procedures		
	Contingency Planning		
1100 – 1200	Planning for Emergencies • Training of Response Teams • Protective Equipment and		
	Clothing		
1200 – 1215	Break		
1215 - 1330	Video & Case Study		
	Contingency Planning (cont'd)		
1330 – 1420	Dealing with Spillage • Dealing with release of Hazardous Substances into the		
	Atmosphere		
1420 - 1430	Recap		
	Using this Course Overview, the Instructor(s) will Brief Participants about the		
	Topics that were Discussed Today and Advise Them of the Topics to be Discussed		
	Tomorrow		
1430	Lunch & End of Day Three		

Day 4

Break	
Video & Case Study	
Break	
Video & Case Study	
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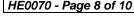
Day 5

0730 - 0930	Fly Ash Procedures	
	Management • Minimization	
0930 - 0945	Break	
0945 – 1130	Chemical Protective Clothing	
	Definition	
1130 – 1230	Chemical Protective Clothing (cont'd)	
	Uses	
1230 – 1245	Break	



















1245 – 1345	COMPETENCY EXAM	
	Results, Discussion & Course Conclusion	
1345 - 1415	Using this Course Overview, the Instructor(s) will Brief Participants about the	
	Course Topics that were Covered During the Course	
1415 – 1430	Presentation of Course Certificates	
1430	Lunch & End of Course	

Simulator (Hands-on Practical Sessions)

Practical session 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 simulator "Industrial Hygiene Virtual Laboratory Simulator" and "CIHprep V9.0 Simulator".



Industrial Hygiene Virtual Laboratory Simulator

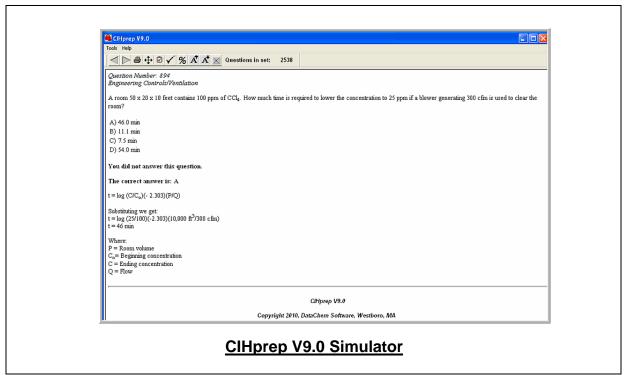












Course Coordinator

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