COURSE OVERVIEW HE0180
Environmental Management &Technology (EMT)
Environmental Engineering, Management, Impact Assessment & Sustainable Reporting

Course Title
Environmental Management & Technology (EMT): *Environmental Engineering, Management, Impact Assessment & Sustainable Reporting*

Course Date/Venue
August 24-28, 2025/Meeting Plus 1, City Centre Rotana Doha, Doha, Qatar

Course Reference
HE0180

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.

The environmental best practices course combines technical environmental engineering fundamentals with more management-based subjects such as environmental management, regulation, law, economics, impact assessment and sustainable development and reporting.

This course will cover the environmental monitoring, dispersion modelling and dispersion tools for clean design and operation of industry. It will examine how businesses integrate environmental issues into their activities, with an introduction to the key elements of EMAS, ISO14001 and tools such as Life Cycle Assessment.

Through practical sessions, the course will encourage the development of skills in conducting reviews and audits, as well as considering the organizational structures and cultures that affect implementation. The course will cover pollution measurement and analysis which will give participants the opportunity through practical exercises to develop skills in survey design and implementation to critically evaluate survey data in terms of variability, sources of error and bias, and to develop skills in environmental reporting and presentation.

Sustainability reporting, also called triple-bottom-line business accountability is the practice of expanding traditional business reporting to take into account environmental and social performance in addition to financial results. Participants will be trained how to prepare comprehensive and factual sustainability reports.

Course Objectives

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

- Apply and gain an in-depth knowledge on environmental management & technology (EMT) including scope, features and benefit in the industry
- Identify the various environmental issues encountered in the industry and recognize the response of the society regarding these environmental issues
- Discuss and employ environmental management systems and the ISO 14001 policy to achieve continuous improvement in environmental performance
- Plan and implement legal requirements as well as the four implementation stages and techniques to achieve the objectives, targets and commitments in the EMS
- Apply the technologies and systematic techniques for preventing contamination & pollution as well as handling hazardous waste materials
- Use material safety data sheet to detect and measure the incidence of contamination and apply contingency planning as well as preventive procedures
- Discuss the different types of portable monitoring equipment such as air PID, LEL Detector, single gas detector, etc.
- Discuss the sustainable development of the industry and prepare comprehensive and factual sustainability reports

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 environmental management and technology for managers, engineers, supervisors, officers, researchers, coordinators and specialists.

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 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:-

Certificate

Haward Technology Middle East

Certifies that

Waleed Al Habeeb

Has succesfully completed a course on

Environmental Management &Technology (EMT) Environmental Engineering, Management, Impact Assessment & Sustainable Reporting

and is hereby awarded 3.0 CEUs (Continuing Education Units) equivalent to 30 PDHs (Professional Development Hours)

Nov 10-14, 2024 Course Date	74851/01/HE0180/DOH/14.11.24 Certificate Number
Nov 14, 2024 Certificate Issuance Date	Nov 14, 2029 Certificate Expiry Date

Dr. John Petrus
Course Instructor

ACTVET License No.
0588/2013

Certificate Accreditation
Please see overleaf

(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)

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-24

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0180	Environmental Management &Technology (EMT) *Environmental Engineering, Management, Impact Assessment & Sustainable Reporting*	Nov 10-14, 2024	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

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Haward's 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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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$ 6,000 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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:

Dr. John Petrus, PhD, MSc, BSc, is a **Senior HSE Consultant** with over **30 years** of **onshore & offshore** experience within the **Oil & Gas**, **Refinery** and **Petroleum** industries. His wide experience covers in the areas of **HAZOP & HAZID**, **HAZMAT & HAZCOM** Storage & Disposal, As Low as Reasonably Practicable (**ALARP**), Process Hazard Analysis (**PHA**), Process Safety Management (**PSM**), **Hazardous Materials & Chemicals** Handling, **Pollution Control**, **Environment, Environmental Management** System, Environmental Impact Assessment (**EIA**), **Environmental Monitoring & Modelling**, **Environmental Awareness** in Industrial Plant, **Environmental Pollution & Control** in Oil Industry, **Environmental Enforcement & Compliance**, **Health & Safety** Management, **Process Risk** Analysis, Effective Tool Box Talks, Construction Sites Safety, **HSSE Management** System, **HSSE Audit & Inspection**, **HSEQ Procedures**, **Authorized Gas** Testing, **Confined Space Entry & Rescue**, **Risk** Management, **Quantitative & Qualitative Risk** Assessment, **Working at Height**, **Firefighting** Techniques, **Fire** & **Gas** Detection System, **Fire Fighter & Fire** Rescue, **Fire Risk** Assessment, **HSE Industrial Practices**, **Manual Handling**, **Rigging Safety Rules**, **Machinery & Hydraulic Lifting Equipment**, **Warehouse Incidents & Accidents Reporting**, **Incident & Accident Investigation**, **Emergency Planning**, **Emergency Response & Crisis** Management Operations, **Waste Management** Monitoring, **Incident Command**, Job Safety Analysis (**JSA**), Behavioral Based Safety (**BBS**). Further he is also well versed in Materials for **Construction & Repair of Concrete**, **Concrete Structures & Building Rehabilitation**, **Reinforced Concrete Structures** Protection, **Building Construction** Technology, **Construction Operations & Civil Engineering** Services, **Building** Management, **Building Maintenance**, **Construction & Concrete** Works, **Construction** Management, **Construction** Materials & Testing, **Construction Safety**, **Predictive Maintenance** in Construction, **Construction & Facilities** Development, **Buildings & Diverse Plant Infrastructure**, **Planning & Monitoring** the Progress & Quality of Work, Physical **Planning & Operations**, **Rotating Machinery** Principles & Applications, **Rotating Equipment** Selection, Operation, Maintenance, Inspection & Troubleshooting, **Rotating Machine/Equipment** in Industry, **Control Valves & Actuators**,**Data Analytics** for Managerial Decision Making, **Business Process Analysis**, Mapping & Modeling, **Research Methods & Analysis**, **Statistical Data Needs Analysis**, Oil & Gas Industry **Business Environment & Competitive Intelligence Gathering & Analysis**, Petroleum **Economics & Risk Analysis**, Certified **Data Analysis**.

During his career life, Dr. Petrus held significant positions and dedication as the **Executive Director**, **Senior Geoscience Advisor**, **Exploration Manager**, **Project Manager**, **Manager**, **HSE Engineer**, **Mechanical Engineer**, **Maintenance Engineer**, **Chief Geologist**, **Chief** of **Exploration**, **Chief** of **Geoscience**, **Senior Geosciences Engineer**, **Senior Explorationist**, **Senior Geologist**, **Geologist**, **Senior Geoscientist**, **Geomodeller**, **Geoscientist**, **CPR Editor**, **Resources Auditor**, **Project Leader**, **Technical Leader**, **Safety Supervisor**, **Team Leader**, **Senior HSE Consultant**, **Scientific Researcher** and **Senior Instructor/Trainer** from various international companies and universities such as the Dragon Oil Holding Plc., ENOC, MENA, ENI Group of Companies, Ocre Geoscience Services (OGS), Burren RPL, Ministry of Oil-Iraq, Eni Corporate University, Standford University, European Universities, European Research Institutes, NorskHydro Oil Company, Oil E&P Companies, just to name a few.

Dr. Petrus has a **PhD** in **Geology** and **Tectonophysics** and **Master** and **Bachelor** degrees in **Earth Sciences** from the **Utrecht University**, **The Netherlands**. Further, he is a **Certified Instructor/Trainer**, a **Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management** (**ILM**), a Secretary and Treasurer of Board of Directors of Multicultural Centre, Association Steunfonds SSH/SSR and Founding Member of Sfera Association. He has further published several scientific publications, journals, research papers and books and delivered numerous trainings, workshops, courses, seminars and conferences internationally.

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 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: ***Sunday, 24th of August 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Environmental Management Systems & ISO 14000 Series Developing a Framework for Managing Environmental Impact***
0930 – 0945	*Break*
0945 – 1100	***Environmental Policy*** *Appropriate to Organization and Complies with Environmental Regulations ● Compliance with Legal Requirements and Voluntary Commitments ● Global & Local Environmental Issues ● Pollution Prevention ● Continuous Improvement in Environmental Performance*
1100 – 1230	***Environmental Policy (cont'd)*** *BS EN ISO 14001: 1996/The Eco-Management and Audit Scheme (EMAS) ● Developing an Environmental Policy for your Company*
1230 – 1245	*Break*
1245 – 1420	***Planning*** *Environmental Aspects & Impacts ● Source of Pollution in Oil and Gas Process ● Environmental Aspects and Legal Requirements ● Objectives & Targets ● Legal & Other Requirements ● Active, Documented Programs to Achieve the Objectives, Targets, and Commitments in the EMS, including the Means and Time Frames for their Completion ● Control/Pollution Prevention on emission to Atmosphere, Waste, Water Environment, Land Contamination*
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*

Day 2: Monday, 25th of August 2025

0730 – 0900	***Implementation & Operation*** *Structure & Responsibility ● Achieving and Maintaining Compliance and Meeting Performance Objectives ● Communicating Relevant Information Regarding the EMS, including the Facility's Environmental Performance, throughout the Organization ● Providing Appropriate Incentives for Personnel to Meet the EMS Requirements ● Document Control*
0900 – 0915	*Break*
0915 – 1100	***Implementation & Operation (cont'd)*** *Environmental Training Programs ● Document & Operational Control of Environmental Management System ● Documentation of the Key EMS Elements ● Operation and Maintenance Programs for Equipment and for Other Operations that are Related to Legal Compliance and Other Significant Environmental Aspects ● An Emergency Preparedness & Response Program*
1100 – 1230	***Checking & Corrective Action*** *Non-Conformance, Corrective & Preventive Actions ● Monitoring & Measurement ● Guidance on Developing Environmental KPI ● Greenhouse Gas Inventory Guidance and Interpretation*
1230 – 1245	*Break*
1245 – 1420	***Management Review***
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: Tuesday, 26th of August 2025

0730 – 0900	***Hazardous Waste Management & Pollution Control*** *Pollution Control Theory ● Cleaner Technologies ● Pollution Control Techniques*
0900 – 0915	*Break*
0915 – 1100	***Toxicology*** *Basic Toxicology ● Case Studies in Environmental Health ● Dose – Response Risk*
1100 – 1230	***Material Safety Data Sheets (MSDS)*** *MSDS Overview ● Reading and Using MSDS*
1230 – 1245	*Break*
1245 – 1420	***Material Safety Data Sheets (MSDS) (cont'd)*** *Handling Storage ● Hazardous Ingredients*
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: Wednesday, 27th of August 2025

0730 - 0900	***Material Safety Data Sheets (MSDS) Regulatory Levels*** *Health Based Exposure Levels ● Fire and Explosion Labeling*
0900 – 0915	*Break*
0915 – 1100	***Pollution/Contamination Prevention Procedures*** *Pollution Reduction Zones*

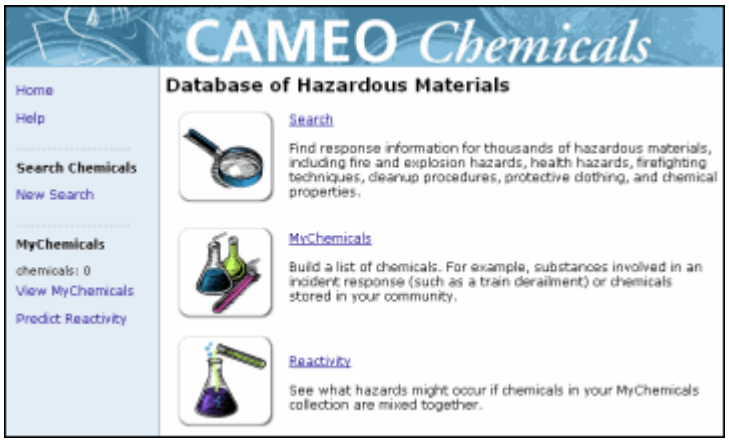
1100 – 1230	***Pollution/Contamination Prevention Procedures (cont'd)*** *Decontamination & Emergency Procedures*
1230 – 1245	*Break*
1245 – 1420	***Contingency Planning*** *Dealing with Spillage ● Dealing with Release of Hazardous Substances into the Atmosphere*
1420 – 1430	***Recap*** *Using this Course 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 Four*

Day 5: ***Thursday, 28th of August 2025***

0730 – 0900	***Portable Monitoring Equipment*** *Air Displacement Theory ● Types of Equipment ● PID – How it Works*
0900 – 0915	*Break*
0915 – 1100	***Portable Monitoring Equipment (cont'd)*** *PID –What it Detects ● As a Hazmat Tool ● Limitation*
1100 – 1200	***Portable Monitoring Equipment (cont'd)*** *LEL Detectors ● Single Gas Detectors ● Colormetric Sampling Tubes*
1200 – 1215	*Break*
1215 – 1300	***Case Studies & Practical Exercises***
1300 – 1315	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1315 – 1415	***COMPETENCY EXAM***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulators (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 Environmental simulators "CAMEO Chemicals Suite Software", "US EPA SCREEN3 Model" and "AERSCREEN Model".



CAMEO Chemicals Suite Software

US EPA SCREEN3 Model

AERSCREEN Model

Course Coordinator
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