

COURSE OVERVIEW HE0942
Certificate in Environmental Management

Course Title

Certificate in Environmental Management

Course Date/Venue

October 13-17, 2024/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference

HE0942

Course Duration/Credits

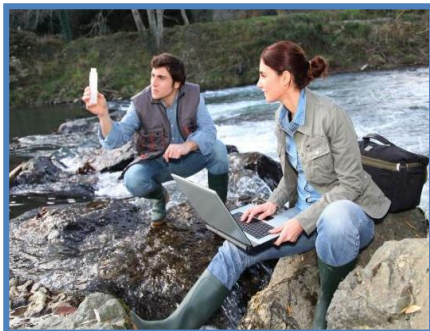
Five days/3.0 CEUs/30 PDHs



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 qualification is designed for anyone who has responsibilities for managing environmental issues as part of their work. The qualification is designed to be globally relevant and benefit companies in all industry sectors who are seeking to implement effective environmental management systems, increase positive environmental impacts, and reduce negative environmental impacts. On completion of the qualification, learners will be able to:-



- Understand a range of environmental issues in order to improve performance and reduce harm;
- Work with an environmental management system and contribute to continual improvement;
- Recognize environmental aspects and evaluate current controls;
- Support decision-making with ethical, legal, and financial arguments;
- Understand the links between your organisation's activities and wider environmental issues.

All elements (1-9) are assessed by an open book examination. The practical assessment requires learners to review environmental aspects and impacts in their own workplace. It draws on the various environmental issues in elements 4-9, as well as the process of assessing environmental aspects and impacts covered in element 3. Both assessments will be marked.

The EMC has two unit assessments; participant must achieve a “Pass” in both units to be awarded the qualification. Participants will have five years to complete their qualification. The five-year period starts from the date that they pass their first successful unit (we call this the ‘declaration date’). Any unit that is five or more years old will not count towards the qualification and participant will need to retake this/these unit(s) if they still want to complete the qualification.

Course Objectives

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

- Achieve the Environmental Management Certificate
- Explain the scope and nature of environmental management and key environmental issues
- Discuss the ethical, legal and financial reasons for maintaining and promoting environmental management
- Summarize sustainability, its importance, and its relationship with corporate social responsibility
- Understand the influence of international agreements on national environmental laws and standards, and the potential consequences of non-compliance
- Recognize the key features and appropriate content of an effective EMS (based on the requirements of ISO 14001)
- Discuss the benefits and limitations of introducing a formal EMS into the workplace
- Recognize different types of environmental impact
- Review and use sources of environmental information
- Apply the principles and practice of environmental aspect and impact assessment
- Explain the importance of environmental emergency planning
- Describe suitable emergency preparation and responses
- Demonstrate awareness of the environmental impacts of noise, air, and water pollution
- Identify sources of environmental harm and suggest suitable control measures for noise and emissions
- Demonstrate awareness of common waste types, the outlets available for waste, and environmental issues associated with waste and contaminated land
- Suggest suitable waste management measures, applying the waste hierarchy
- Discuss the benefits and limitations of a range of renewable and non-renewable energy sources
- Explain how energy efficiency can be increased

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, sample video clips of the instructor’s actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides a wide understanding and deeper appreciation of certificate in environmental management in accordance with the international standards for managers, supervisors and employees who have responsibility for managing environmental issues as part of their day to day duties.

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 |
|--------------|---|----------------------|----------------------|-------|
| HE0942 | Certificate in Environmental Management | 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











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

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Course Accreditations

Haward Technology is 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 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(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. Andrew Ladwig is a **Senior Process & Mechanical Engineer** with over **25 years** of extensive experience within the **Oil & Gas, Refinery, Petrochemical & Power** industries. His expertise widely covers in the areas of **Ammonia Manufacturing & Process Troubleshooting, Distillation Towers, Crude Oil Distillation, Fundamentals of Distillation** for Engineers, **Distillation Operation and Troubleshooting, Advanced Distillation Troubleshooting, Distillation Technology, Vacuum Distillation, Ammonia Storage & Loading Systems, Ammonia Plant Operation, Troubleshooting & Optimization, Ammonia Recovery, Ammonia Plant Safety, Hazard of Ammonia Handling, Storage & Shipping, Operational Excellence in Ammonia Plants, Fertilizer Storage Management (Ammonia & Urea), Fertilizer**

Manufacturing Process Technology, Sulphur Recovery, Phenol Recovery & Extraction, Wax Sweating & Blending, Petrochemical & Fertilizer Plants, Nitrogen Fertilizer Production, Petroleum Industry Process Engineering, Refining Process & Petroleum Products, Refinery Planning & Economics, Safe Refinery Operations, Hydrotreating & Hydro-processing, Separators in Oil & Gas Industry, Gas Testing & Energy Isolations, Gas Liquor Separation, Industrial Liquid Mixing, Wax Bleachers, Extractors, Fractionation, Operation & Control of Distillation, Process of Crude ATM & Vacuum Distillation Unit, Water Purification, Water Transport & Distribution, Steam & Electricity, Flame Arrestors, Coal Processing, Environmental Emission Control, R&D of Wax Blending, Wax Molding/Slabbing, Industrial Drying, Principles, Selection & Design, Certified Process Plant Operations, Control & Troubleshooting, Operator Responsibilities, Storage Tanks Operations & Measurements, Process Plant Troubleshooting & Engineering Problem Solving, Process Plant Performance, Efficiency & Optimization, Continuous Improvement & Benchmarking, Process Troubleshooting Techniques, Oil & Gas Operation/Introduction to Surface Facilities, Pressure Vessel Operation, Process Equipment Performance & Troubleshooting, Plant Startup & Shutdown, Startup & Shutdown the Plant While Handling Abnormal Conditions, Flare & Relief System, Process Gas Plant Start-up, Commissioning & Problem Solving, Process Liquid and Process Handling & Measuring Equipment. Further, he is also well-versed in Compressors & Turbines Operation, Maintenance & Troubleshooting, Heat Exchanger Overhaul & Testing Techniques, Balancing of Rotating Machinery (BRM), Pipe Stress Analysis, Valves & Actuators Technology, Inspect & Maintain Safeguarding Vent & Relief System, Certified Inspectors for Vehicle & Equipment, Optimizing Equipment Maintenance & Replacement Decisions, Certified Maintenance Planner (CMP), Certified Planning and Scheduling Professional (AACE-PSP), Tank Design, Construction, Inspection & Maintenance, Material Cataloguing, Specifications, Handling & Storage, Steam Trap Design, Operation, Maintenance & Troubleshooting, Steam Trapping & Control, Column, Pump & Exchangers, Troubleshooting & Design, Rotating Equipment Operation & Troubleshooting, Control & ESD System, Detailed Engineering Drawings, Codes & Standards, Budget Preparation, Allocation & Cost Control, Root Cause Analysis (RCA), Production Optimization, Permit to Work (PTW), Project Engineering, Data Analysis, Process Hazard Analysis (PHA), HAZOP Study, Sampling & Analysis, Training Analysis, Job Analysis Techniques, Storage & Handling of Toxic Chemicals & Hazardous Materials, Hazardous Material Classification & Storage/Disposal, Dangerous Goods, Environmental Management System (EMS), Supply Chain, Purchasing, Procurement, Logistics Management & Transport & Warehousing & Inventory, Risk Monitoring Authorized Gas Tester (AGT), Confined Space Entry (CSE), Personal Protective Equipment (PPE), Fire & Gas, First Aid and Occupational Health & Safety.

During his career life, Mr. Ladwig has gained his practical experience through his various significant positions and dedication as the **Mechanical Engineer, Project Engineer, Reliability & Maintenance Engineer, Maintenance Support Engineer, Process Engineer, HSE Supervisor, Warehouse Manager, Quality Manager, Business Analyst, Senior Process Controller, Process Controller, Safety Officer, Mechanical Technician, Senior Lecturer and Senior Consultant/Trainer** for various companies such as the Sasol Ltd., Sasol Wax, Sasol Synfuels, just to name a few.

Mr. Ladwig has a **Bachelor's degree in Chemical Engineering** and a **Diploma in Mechanical Engineering**. Further, he is a **Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and has delivered various trainings, workshops, seminars, courses 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, 13th of October 2024

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|-------------|---|
| 0730 – 0800 | Registration & Coffee |
| 0800 – 0815 | Welcome & Introduction |
| 0815 – 0830 | PRE-TEST |
| 0830 – 0930 | Unit EMC1: Environmental Management Element 1: Foundations in Environmental Management (The Scope & Nature of Environmental Management) |
| 0930 – 0945 | Break |
| 0945 – 1030 | Unit EMC1: Environmental Management (cont'd) Element 1: Foundations in Environmental Management (The Ethical, Legal & Financial Reasons for Maintaining & Promoting Environmental Management) |
| 1030 – 1130 | Unit EMC1: Environmental Management (cont'd) Element 1: Foundations in Environmental Management (Supporting Sustainable Development) |
| 1130 – 1215 | Unit EMC1: Environmental Management (cont'd) Element 1: Foundations in Environmental Management (The Role of National Governments & International Bodies in Formulating a Framework For the Regulation of Environmental Management) |
| 1215 – 1230 | Break |
| 1230 – 1330 | Unit EMC1: Environmental Management (cont'd) Element 2: Environmental Management Systems (Reasons for Implementing an Environmental Management System (EMS)) |
| 1330 – 1420 | Unit EMC1: Environmental Management (cont'd) Element 2: Environmental Management Systems (The Key Features & Appropriate Content of an Effective EMS (Based on the Requirements of ISO 14001)) |
| 1420 – 1430 | Recap |
| 1430 | Lunch & End of Day One |

Day 2: Monday, 14th of October 2024

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| 0730 – 0830 | Unit EMC1: Environmental Management (cont'd) Element 2: Environmental Management Systems (Benefits & Limitations of Introducing a Formal EMS Into the Workplace) |
| 0830 – 0930 | Unit EMC1: Environmental Management (cont'd) Element 3: Assessing Environmental Aspects & Impacts (Reasons for Carrying Out Environmental Aspect & Impact Assessments) |
| 0930 – 0945 | Break |
| 0945 – 1100 | Unit EMC1: Environmental Management (cont'd) Element 3: Assessing Environmental Aspects & Impacts (Types of Environmental Impact) |
| 1100 – 1215 | Unit EMC1: Environmental Management (cont'd) Element 3: Assessing Environmental Aspects & Impacts (Nature & Key Sources of Environmental Information) |
| 1215 – 1230 | Break |
| 1230 – 1330 | Unit EMC1: Environmental Management (cont'd) Element 3: Assessing Environmental Aspects & Impacts (Identification of Environmental Aspects & Associated Impacts) |
| 1330 – 1420 | Unit EMC1: Environmental Management (cont'd) Element 4: Planning for & Dealing with Environmental Emergencies (The Importance of Environmental Emergency Planning) |
| 1420 – 1430 | Recap |
| 1430 | Lunch & End of Day Two |

Day 3: Tuesday, 15th of October 2024

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| 0730 – 0830 | Unit EMC1: Environmental Management (cont'd) Element 4: Planning for & Dealing with Environmental Emergencies (Emergency Preparedness & Response) |
| 0830 – 0930 | Unit EMC1: Environmental Management (cont'd) Element 5: Control of Emissions to Air (Air Quality Standards) |
| 0930 – 0945 | Break |
| 0945 – 1100 | Unit EMC1: Environmental Management (cont'd) Element 5: Control of Emissions to Air (Main Types of Emissions to Atmosphere) |
| 1100 – 1215 | Unit EMC1: Environmental Management (cont'd) Element 5: Control of Emissions to Air (Control Measures to Reduce Emissions) |
| 1215 – 1230 | Break |
| 1230 – 1330 | Unit EMC1: Environmental Management (cont'd) Element 6: Control of Environmental Noise (Sources & Effects of Environmental Noise) |
| 1330 – 1420 | Unit EMC1: Environmental Management (cont'd) Element 6: Control of Environmental Noise (Methods for the Control of Environmental Noise) |
| 1420 – 1430 | Recap |
| 1430 | Lunch & End of Day Three |

Day 4: Wednesday, 16th of October 2024

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| 0730 – 0930 | Unit EMC1: Environmental Management (cont'd) Element 7: Control of Contamination of Water Sources (Importance of the Quality of Water for Life) |
| 0930 – 0945 | Break |
| 0945 – 1100 | Unit EMC1: Environmental Management (cont'd) Element 7: Control of Contamination of Water Sources (Main Sources of Water Pollution) |
| 1100 – 1215 | Unit EMC1: Environmental Management (cont'd) Element 7: Control of Contamination of Water Sources (Main Control Measures that are Available to Reduce Contamination of Water Sources) |
| 1215 – 1230 | Break |
| 1230 – 1330 | Unit EMC1: Environmental Management (cont'd) Element 8: Control of Waste & Land Use (Waste Types) |
| 1330 – 1420 | Unit EMC1: Environmental Management (cont'd) Element 8: Control of Waste & Land Use (Minimizing Waste) |
| 1420 – 1430 | Recap |
| 1430 | Lunch & End of Day Four |

Day 5: Thursday, 17th of October 2024

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|-------------|--|
| 0730 – 0830 | Unit EMC1: Environmental Management (cont'd) Element 8: Control of Waste & Land use (Managing Waste) • (Outlets Available for Waste) |
| 0830 – 0930 | Unit EMC1: Environmental Management (cont'd) Element 8: Control of Waste & Land use (Risks Associated With Contaminated Land) |
| 0930 – 0945 | Break |
| 0945 – 1100 | Unit EMC1: Environmental Management (cont'd) Element 9: Sources & Use of Energy & Energy Efficiency (Use of Fossil Fuels) |
| 1100 – 1230 | Unit EMC1: Environmental Management (cont'd) Element 9: Sources & Use of Energy & Energy Efficiency (Renewable Sources of Energy) |
| 1230 – 1245 | Break |
| 1245 – 1300 | Unit EMC1: Environmental Management (cont'd) Element 9: Sources & Use of Energy & Energy Efficiency (Energy Efficiency) |
| 1300 - 1315 | Course Conclusion |
| 1315 – 1415 | COMPETENCY EXAM |
| 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

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org