



COURSE OVERVIEW HE0309-4D **Greenhouse Gas (GHG) Calculation & Reporting**

Course Title

Greenhouse Gas (GHG) Calculation & Reporting

Course Date/Venue

August 10-13, 2025/Boardroom 2, Elite Byblos
Hotel Al Barsha, Sheikh Zayed Road, Dubai,
UAE

Course Reference

HE0309-4D



Course Duration/Credits

Four Days/2.4 CEUs/24 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 delegates with a detailed and up-to-date overview of Greenhouse Gas (GHG) Calculation & Reporting. It covers the operational control in GHG management, GHG reporting boundary, and GHG counting; reporting GHG emission and the ISO 14060 and GHG protocol; quantifying emission, applying data collection and reviewing baseline year and baseline scenario; the GHG emission and removal and checking the GHG quantification; and the materiality of risk, uncertainty estimation and its sources in GHG emission.



During this interactive course, participants will learn the boundaries and GHG inventories; mitigating GHG emissions and the difference between carbon and net zero; the risk and action required including offsetting residual GHG emissions; the GHG quantification and carbon management plan; leading and lagging indicators; and the ISO 14064-1,2 and 3, ISO 14067 and ISO 14068.



Course Objectives

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

- Apply and gain an in-depth knowledge on greenhouse gas (GHG) calculation and reporting
- Discuss the operational control in GHG management, GHG reporting boundary, and GHG counting
- Report GHG emission and interpret ISO 14060 and GHG protocol
- Quantify emission, apply data collection and review baseline year and baseline scenario
- Calculate GHG emission and removal and check the GHG quantification
- Recognize materiality of risk, uncertainty estimation and its sources in GHG emission
- Report boundaries and GHG inventories and mitigate GHG emissions
- Differentiate carbon and net Zero and discuss the risk and action required including offsetting residual GHG emissions
- Apply GHG quantification and carbon management plan, as well as identify leading and lagging indicators and discuss ISO 14064-1,2 and 3, ISO 14067 and ISO 14068

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

The course provides an overview of all significant aspects and considerations of greenhouse gas (GHG) calculation and reporting for environmental managers, sustainability professionals, energy managers, regulatory compliance officers, corporate social responsibility (CSR) managers, environmental consultants, auditors, project managers, policy makers and government representatives, supply chain managers, climate change specialist 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.

Accommodation

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




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

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 **2.4 CEUs** (Continuing Education Units) or **24 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\$ 4,500 per Delegate + **VAT**. 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:



Mr. Saad Bedir, BSc, NEBOSH-IGC, NEBOSH-ENV, is a **Senior Fire, Health, Safety & Environment (HSE) Consultant** with over **30 years** of extensive experience in the **Power, Petrochemical and Oil & Gas** industries. He is a **NEBOSH Approved Instructor** for various certification programs. He is well-versed in the areas of **NEBOSH International General Certificate, NEBOSH Certificate in Environmental Management, Health, Fire, Safety, Security & Environmental Codes of Practice, Legislations and Procedures, Green House Gas (GHG) Management, Basics of Organizational Greenhouse Gas (GHG) Accounting, Hazard & Risk Assessment, Active and Positive Fire Fighting, Fire & Gas Detection Systems, Fire Fighting Systems, Fire Proofing, ESD, Escape Routes, Mobile Crane Operation, Heavy Lifting Equipments, Scaffolding, Rigging Slings, the implementation of OHSAS 18001, ISO 9001, ISO 14001, QHSE Management Planning, Crisis & Business Continuity Management Planning, Emergency Response & Procedures, Industrial Security Risk Assessment & Management, Environmental Impact Assessment (EIA), Behavioural Safety, Occupation Safety, Incident & Accident Investigation, Integrated EHS Aspects, Risk Assessment & Hazard Identification, Environmental Audits, Chemical Handling, Hazardous & Non-Hazardous Waste Management, Confined Space Safety, SHEMS Principles, Process Safety, Basic & Advanced Construction Safety, Mobile Crane Operations, Rig & Barge Inspection, Lifting & Slings, Scaffolding, Air Quality Management, Safety & Occupational Health Awareness, Loss Control, Marine Pollution Hazards & Control, Ground Contamination & Reclamation Processes, Waste Management & Recycling, Clean Energy & Power Saving, FMEA, PSM, HAZMAT/HAZCOM, HAZOP, HAZWOPER, HAZID, HSEIA, QRA, Hazardous Area Classification and Radiation Protection. Further, he is also well-verse in **Performance Standards, Statistical Report Writing, Basic Motivation Management, Performance Assessment & Appraisal, Manpower Planning, Managing & Coordinating Training, Strategic Talent Management, Developing Others, Managing Employees Performance, Performance Evaluation and Human Resource Management**. Presently, he is the **HSE Director** for one of the largest and renowned companies in the Middle East, wherein he takes charge of all HSE and security operations of the company.**

Mr. Saad's vast professional experience in directing and managing health, safety and the environment aspects as per **OSHA framework** and guidelines can be traced back to his stint with a few international companies like **Saudi ARAMCO, CONOCO, Kuwait Oil Co. (KOC)**, where he worked as the Field HSE Senior Engineer handling major projects and activities related to the discipline. Through these, Saad gained much experience and knowledge in the implementation and maintenance of international safety standards such as the National Fire Protection Association (**NFPA**), the American Petroleum Institute (**API**), Safety of Life at Sea (**SOLAS**) and Safety for Mobile Offshore Drilling Unit (**MODU**).

Mr. Saad has **NEBOSH** certificate which includes health & safety measures including:

- Fire fighting management system
- Rescue mechanisms (Escaping routes, Rope rescue, and emergency evacuation Plan)
- Machinery Safety requirement
- Occupational health measures & requirement

Mr. Saad has a **Bachelor** degree in **Chemistry**. Further, he is a **Certified Instructor/Trainer**, an **Approved Tutor** in **NEBOSH International General Certificate**, an **Approved Tutor** in **NEBOSH Certificate in Environmental Management**, a **Certified Lead Auditor** for **OHSAS 18001, ISO 9001, ISO 14001** and a **member** of the **Egyptian Syndicate & Scientific Professions**. His passion for development and acquiring new skills and knowledge has taken him all over the Middle East to attend and share his expertise in numerous trainings and workshops.



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, 10th of August 2025

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 - 0900	Introduction to GHG Calculation & Reporting
0900 - 0930	Operational Control in (GHG) Management
0930 - 0945	Break
0945 - 1130	GHG Reporting Boundary
1130 - 1230	History of GHG Counting
1230 - 1245	Break
1245 – 1330	Reporting your GHG Emission
1330 - 1420	ISO 14060 Scope's & GHG Protocol
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 11th of August 2025

0730 - 0830	Quantifying your Emissions
0830 - 0930	Data collection
0930 - 0945	Break
0945 - 1145	Baseline Year & Baseline Scenario
1145 - 1230	Calculation of GHG Emission & Removal
1230 - 1245	Break
1245 - 1400	Checking the GHG Quantification
1400 - 1420	Materiality of Risk
1420 - 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 12th of August 2025

0730 - 0830	Uncertainty Estimation & its Sources in GHG Emission
0830 - 0930	Reporting Boundaries
0930 – 0945	Break
0945 - 1045	Reporting GHG Inventories
1045 – 1230	Mitigating GHG Emissions
1230 - 1245	Break
1245 – 1330	Difference Between Carbon Neutrality & Net Zero
1330 - 1420	Understanding the Risks & the Actions Required is Essential
1420 - 1430	Recap
1430	Lunch & End of Day Three



Day 4: Wednesday, 13th of August 2025

0730 – 0830	<i>Offsetting Residual GHG Emissions</i>
0830 – 0930	<i>Quality Matters Related to GHG Quantification</i>
0930 – 0945	<i>Break</i>
0945 – 1130	<i>Carbon Management Plan</i>
1130 – 1230	<i>Leading & Lagging Indicators</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>ISO 14064-1, 2 & 3, ISO 14067 & ISO 14068</i>
1345 – 1400	<i>Course Conclusion</i>
1400 – 1415	<i>POST-TEST</i>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

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