



COURSE OVERVIEW HE2226 **Carbon Foot Printing: Accounting, Certification,** **Reporting & Crediting**

Course Title

Carbon Foot Printing: Accounting, Certification, Reporting & Crediting

Course Date/Venue

September 21-25, 2026/Albatross Meeting Room, VOGO Abu Dhabi Golf Resort & Spa Formerly Westin Abu Dhabi Golf Resort & Spa, Abu Dhabi, UAE

Course Reference

HE2226

Course Duration/Credits

Five days/2.75 CEUs/27.5 PDHs

Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

This course provides participants with the technical knowledge, methodologies & practical tools required to develop, manage, verify, report and improve organizational carbon footprints. The course addresses corporate greenhouse gas (GHG) accounting, Scope 1, Scope 2 & Scope 3 emissions, emission-factor selection, data quality, uncertainty, carbon footprint verification/certification, climate-related reporting & carbon crediting.



The course is structured around internationally recognized approaches including the GHG Protocol Corporate Standard, Corporate Value Chain (Scope 3) Standard & ISO 14064 family, with consideration of their application within energy & oil & gas operations. The GHG Protocol classifies direct emissions as Scope 1, purchased energy emissions as Scope 2 and other value-chain indirect emissions as Scope 3.



The course is particularly relevant to company's sustainability context, where emissions reduction, responsible energy delivery and measurable decarbonization form important elements of the company's sustainability approach.





Further, the course will also discuss the climate change, decarbonization and carbon management fundamentals; the carbon footprinting principles, terminology and applications; the international GHG accounting standards and frameworks and organizational and operational boundaries; the GHG sources, GHG inventory and direct GHG emissions accounting; the activity data and emission factors, carbon footprint calculation methodologies and data quality, uncertainty and GHG inventory controls; the carbon footprint verification and assurance fundamentals; and the GHG inventory for verification, materiality and risk-based verification.

During this interactive course, participants will learn the verification findings and continuous improvement; the principles of credible carbon reporting, corporate GHG inventory report and carbon performance indicators and benchmarking; the climate and sustainability disclosure frameworks, carbon reduction targets and GHG reduction and decarbonization program; the carbon footprint reporting for management decision-making; the fundamentals of carbon credits and carbon markets and GHG project accounting for carbon credits; the carbon neutrality versus net zero, emission reduction hierarchy and treatment of residual and hard-to-abate emissions; and the appropriate role of credits within decarbonization strategies.

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain an in-depth knowledge on carbon foot printing
- Discuss the climate change, decarbonization and carbon management fundamentals and carbon footprinting principles, terminology and applications
- Apply international GHG accounting standards and frameworks including GHG accounting principles and inventory quality
- Establish organizational and operational boundaries, GHG sources in oil and gas operations and develop a corporate GHG inventory
- Apply direct GHG emissions accounting, purchased energy emissions accounting and value-chain GHG accounting
- Identify activity data and emission factors and carryout carbon footprint calculation methodologies and data quality, uncertainty and GHG inventory controls
- Employ carbon footprint verification and assurance fundamentals including ISO 14064 requirements for GHG verification
- Prepare GHG inventory for verification and carryout materiality and risk-based verification and GHG verification process
- Manage verification findings and continuous improvement and discuss the principles of credible carbon reporting
- Prepare a corporate GHG inventory report and apply carbon performance indicators and benchmarking
- Recognize climate and sustainability disclosure frameworks, set carbon reduction targets and develop GHG reduction and decarbonization program





- Carryout carbon footprint reporting for management decision-making and discuss the fundamentals of carbon credits and carbon markets and GHG project accounting for carbon credits
- Carryout carbon credit integrity and additionality, carbon credit project cycle and evaluating carbon credits for corporate use
- Interpret understanding carbon neutrality versus net zero, emission reduction hierarchy, treatment of residual and hard-to-abate emissions and appropriate role of credits within decarbonization strategies

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 carbon foot printing for sustainability and ESG professionals, environmental and energy specialists, finance, accounting and compliance professionals, corporate leaders and decision-makers, supply chain, procurement and operations teams, auditors, consultants and certification professionals, government, regulators and NGOs and students and early-career professionals.

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 Certificate(s)

- (1) Internationally recognized Competency Certificates 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



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 **2.75 CEUs** (Continuing Education Units) or **27.5 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:



Dr. Ahmed Tawfiq, PhD, MSc, BSc, NEBOSH, is a **Senior Health, Safety & Environmental Expert** with over **25 years** of practical experience within the **Oil and Gas** industry. His expertise widely covers in the areas of **Sustainability Management**, Global Sustainability Assessment System (GSAS), Corporate Social Responsibility (CSR), **Carbon Footprinting**, Advanced Environmental, Social & Governance (ESG), **CSR & Sustainability Principles**, **Sustainability & Environmental Awareness**, **Sustainability Awareness in the Workplace**, **Environmental Management**, **Environmental Pollution**, **Environmental Emergency Plan**, **Environmental Management**, **Environmental Impact & Life Cycle Assessments** (ISO 14001/14040/14041), **HSE Management**, **Environmental Management Awareness**, **Environmental Risk Management** and **Climate Change Adaptation**, **Environmental Incident Investigation & Root Cause Analysis**, Macroeconomics in **Climate Change**, **Greenhouse Gas Management**, **HSSE Principles & Practices**, **Exposure Assessment**, **Offshore Reliability**, **HAZOP**, **Risk & Safety**, **Hazards & Emergency Response**, **Emissions to Air & Ambient Air Quality**, **ISO 14001 Specification**, **ISO 14001 & 45001 Auditing Techniques**, **ISO 45001 Migration**, **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** and **Quantitative & Qualitative Risk Assessment**.

During his career life, Dr. Ahmed has gained his practical and field experience through his various significant positions and dedication as the **Director of Organizational Excellence**, **QHSE Manager**, **Technical Office Manager & Senior Environmental Researcher**, **HSE & Sustainability Leadership Roles**, **Research Scientist**, **Strategic Advisor** and **Senior Instructor/Trainer** for various international companies and institutions such as Dhafra Region Municipality, Hedley International Emirates and Egyptian Environmental Affairs Agency (EEAA).

Dr. Ahmed has a **PhD** and **Master's** degree in **Inorganic Chemistry** and a **Bachelor's** degree in **Chemistry**. Further, he is a **Certified Instructor/Trainer**, a **Certified NEBOSH Health and Safety at Work** Trainer, a **Certified ISO 14001 Auditor**, a **Certified ISO 18001 Lead Auditor** and an **Approved Trainer** from the Highfield Awarding body for Compliance (**HABC**). He has further delivered several courses, trainings and seminars and participated in various international conferences and **published numerous papers and journals** globally.



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.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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: Monday, 21st of September 2026

0800 – 0830	Registration & Coffee
0830 – 0845	Welcome & Introduction
0845 – 0900	PRE-TEST
0900 – 0930	Climate Change, Decarbonization & Carbon Management Fundamentals Climate Change Science & the Greenhouse Effect • Major Anthropogenic Sources of Greenhouse Gas Emissions • Global Warming Potential (GWP) & CO ₂ -Equivalent Concepts • Role of Carbon Footprinting in Corporate Decarbonization Strategies
0930 – 0945	Break
0945 – 1030	Carbon Footprinting Principles, Terminology & Applications Organizational versus Product versus Project Carbon Footprints • Carbon Footprint Boundaries & Reporting Periods • Direct versus Indirect GHG Emissions • Carbon Footprinting as a Sustainability Performance Management Tool
1030 – 1100	International GHG Accounting Standards & Frameworks GHG Protocol Corporate Accounting & Reporting Standard • ISO 14064 Framework for Organizational GHG Management • GHG Protocol Scope 2 & Scope 3 Guidance • Relationship Between Accounting, Reporting, Verification & Crediting
1100 – 1200	GHG Accounting Principles & Inventory Quality Relevance & Completeness of GHG Information • Consistency of Accounting Methodologies • Transparency of Assumptions, Data Sources & Calculations • Accuracy, Materiality & Continuous Improvement
1200 – 1215	Break
1215 – 1300	Establishing Organizational Boundaries Equity Share Approach • Financial Control Approach • Operational Control Approach • Treatment of Subsidiaries, Joint Ventures & Shared Operations
1300 – 1300	Establishing Operational Boundaries Identification of Scope 1 Emission Sources • Identification of Scope 2 Emission Sources • Identification of Scope 3 Value-Chain Emissions • Avoiding Double Counting Across Organizational Boundaries



1300 - 1350	GHG Sources in Oil & Gas Operations Fuel Combustion from Boilers, Furnaces, Turbines & Heaters • Flaring, Venting & Process-Related Emissions • Fugitive Methane & Refrigerant Emissions • Purchased Energy, Transportation & Supply-Chain Emissions
1350 - 1400	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
1400	Lunch & End of Day One

Day 2: Tuesday, 22nd of September 2026

0800 – 0930	Developing a Corporate GHG Inventory Defining Inventory Objectives & Reporting Requirements • Identification & Mapping of GHG Emission Sources • Establishing Base Years & Reporting Periods • Developing a Structured GHG Inventory Management Plan
0930 – 0945	Break
0945 – 1030	Scope 1 - Direct GHG Emissions Accounting Stationary Combustion Emissions • Mobile Combustion & Company-Owned Transportation • Process, Venting & Flaring Emissions • Fugitive Methane, Refrigerants & Other Direct Releases
1030 – 1100	Scope 2 - Purchased Energy Emissions Accounting Purchased Electricity, Steam, Heating & Cooling • Location-Based Scope 2 Accounting • Market-Based Scope 2 Accounting • Electricity Emission Factors & Contractual Instruments
1100 – 1200	Scope 3 - Value-Chain GHG Accounting Understanding the 15 Scope 3 Categories • Upstream versus Downstream Value-Chain Emissions • Screening & Prioritizing Material Scope 3 Categories • Supplier & Customer Data Collection Strategies
1200 – 1215	Break
1215 – 1300	Activity Data & Emission Factors Identifying Appropriate Activity Data • Selection of Reliable Emission Factors • Fuel Consumption, Electricity & Process Activity Data • Managing Missing Data, Estimates & Proxy Information
1300 – 1330	Carbon Footprint Calculation Methodologies Activity Data × Emission Factor Calculations • Converting Individual GHGs into CO ₂ -Equivalent • Application of Global Warming Potential Values • Aggregating Facility, Business Unit & Corporate-Level Emissions
1330 - 1350	Data Quality, Uncertainty & GHG Inventory Controls Data Quality Indicators & Assessment • Sources of Measurement & Calculation Uncertainty • Quality Assurance & Quality Control Procedures • Documentation, Traceability & Audit Trails
1350 – 1400	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
1400	Lunch & End of Day Two



Day 3: Wednesday, 23rd of September 2026

0800 – 0930	Carbon Footprint Verification & Assurance Fundamentals Purpose & Benefits of Independent GHG Verification • First-, Second- & Third-Party Assurance Concepts • Reasonable versus Limited Assurance • Verification as a Tool for Improving Reporting Credibility
0930 – 0945	Break
0945 – 1030	ISO 14064 Requirements for GHG Verification Structure & Application of the ISO 14064 Family • Organizational-Level GHG Quantification Requirements • GHG Project Quantification Requirements • Verification & Validation of GHG Statements
1030 – 1100	Preparing a GHG Inventory for Verification Defining Verification Scope & Objectives • Establishing Verification Criteria • Preparing Evidence & Supporting Documentation • Ensuring Data Traceability & Reproducibility
1100 – 1200	Materiality & Risk-Based Verification Understanding Material Misstatement • Identifying High-Risk Emission Sources • Sampling & Evidence-Gathering Approaches • Assessing Quantitative & Qualitative Materiality
1200 – 1215	Break
1215 – 1300	GHG Verification Process Pre-Engagement & Strategic Analysis • Risk Assessment & Verification Planning • Site Assessment, Data Testing & Recalculation • Findings, Corrective Actions & Verification Statements
1300 – 1330	Carbon Footprint Certification & Conformity Assessment Difference Between Verification, Validation & Certification • Organizational versus Product Carbon Footprint Certification • Selecting Competent Verification/Certification Bodies • Maintaining Certification & Managing Surveillance Activities
1330 – 1350	Managing Verification Findings & Continuous Improvement Classification of Findings & Nonconformities • Root Cause Analysis of GHG Data Errors • Corrective & Preventive Actions • Strengthening Internal Carbon Accounting Controls
1350 – 1400	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
1400	Lunch & End of Day Three

Day 4: Thursday, 24th of September 2026

0800 – 0930	Principles of Credible Carbon Reporting Completeness & Transparency of GHG Disclosures • Reporting Organizational & Operational Boundaries • Disclosure of Methodologies, Assumptions & Limitations • Maintaining Consistency Across Reporting Periods
0930 – 0945	Break
0945 – 1030	Preparing a Corporate GHG Inventory Report Executive Summary & Organizational Profile • Scope 1, Scope 2 & Scope 3 Emission Results • Base-Year Comparison & Performance Trends • Methodology, Emission Factors & Supporting Documentation
1030 – 1100	Carbon Performance Indicators & Benchmarking Absolute versus Intensity-Based GHG Metrics • Emissions per Unit of Production • Energy & Carbon Intensity Indicators • Internal & External Performance Benchmarking

1100 – 1200	Climate & Sustainability Disclosure Frameworks Linking Carbon Accounting to Sustainability Reporting • Climate-Related Financial & Non-Financial Disclosures • GHG Data Requirements for ESG Reporting • Ensuring Consistency Across Corporate Climate Disclosures
1200 – 1215	Break
1215 – 1300	Setting Carbon Reduction Targets Establishing Baselines & Reference Years • Absolute versus Intensity Reduction Targets • Short-, Medium- & Long-Term Decarbonization Targets • Tracking Progress & Recalculating Baselines
1300 – 1330	Developing a GHG Reduction & Decarbonization Program Energy Efficiency & Operational Optimization • Renewable & Low-Carbon Energy Opportunities • Methane, Flaring & Fugitive Emission Reduction • Carbon Capture, Utilization & Storage Opportunities
1330 – 1350	Carbon Footprint Reporting for Management Decision-Making Developing Carbon Dashboards & Management Reports • Identifying Significant Emission Hotspots • Translating Carbon Data into Investment Priorities • Integrating GHG Performance into Business Planning
1350 – 1400	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
1400	Lunch & End of Day Four

Day 5: Friday, 25th of September 2026

0730 – 0830	Fundamentals of Carbon Credits & Carbon Markets Carbon Allowances versus Carbon Credits • Compliance versus Voluntary Carbon Markets • Carbon Offsetting & Environmental Attribute Concepts • Role of Carbon Markets in Corporate Decarbonization
0830 – 0930	GHG Project Accounting for Carbon Credits Establishing Project Boundaries • Defining Project Baselines • Quantifying GHG Emission Reductions & Removals • Monitoring Project Performance Over the Crediting Period
0930 – 0945	Break
0945 – 1000	Carbon Credit Integrity & Additionality Demonstrating Project Additionality • Addressing Leakage & Permanence • Avoiding Double Counting & Double Claiming • Ensuring Conservative & Credible Quantification
1000 – 1030	Carbon Credit Project Cycle Project Identification & Feasibility Assessment • Project Design & Documentation • Validation, Registration & Monitoring • Verification, Credit Issuance, Transfer & Retirement
1030 – 1130	Evaluating Carbon Credits for Corporate Use Carbon Credit Quality Assessment Criteria • Project Type, Methodology & Verification Quality • Environmental & Social Co-Benefits • Reputational, Regulatory & Greenwashing Risks
1130 – 1200	Carbon Neutrality, Net Zero & Residual Emissions Understanding Carbon Neutrality versus Net Zero • Emission Reduction Hierarchy • Treatment of Residual & Hard-to-Abate Emissions • Appropriate Role of Credits within Decarbonization Strategies
1200 – 1215	Break



1215 – 1230	Integrated Carbon Management Workshop & Case Study <i>Building an Oil & Gas Corporate GHG Inventory • Calculating Scope 1, Scope 2 & Selected Scope 3 Emissions • Preparing the Inventory for Verification & Reporting • Developing a Carbon Reduction, Reporting & Crediting Action Plan</i>
1230 - 1245	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1245 – 1345	COMPETENCY EXAM
1345 – 1400	<i>Presentation of Course Certificates</i>
1400	<i>Lunch & End of Course</i>

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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