COURSE OVERVIEW HE2236-3D
Carbon Credits Capturing & Trading

Course Title
Carbon Credits Capturing & Trading

Course Date/Venue
September 28-30, 2026/TBA Meeting Room, Royal Rose Hotel Abu Dhabi, a Curio Collection by Hilton Affiliated Hotel, Abu Dhabi, UAE

Course Reference
HE2236-3D

Course Duration/Credits
Three days/1.65 CEUs/16.5 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 participants with detailed and up-to-date overview of Carbon Credits Capturing & Trading. It covers the climate change, decarbonization and carbon markets; the carbon footprinting and GHG emissions accounting; the fundamentals of carbon credits, carbon offsets, compliance and voluntary carbon markets; the carbon credit standards, methodologies and integrity, decarbonization and carbon management; the carbon credit generation opportunities and carbon capture, utilization and storage (CCUS); and the carbon credit project and measurement, reporting and verification (MRV).

During this interactive course, participants will learn the carbon credit certification and issuance process; the carbon project economics and feasibility assessment; the carbon market architecture, trading mechanisms, carbon credit pricing and market analysis; the carbon credit trading process and carbon trading risk management; the international carbon markets and Article 6 and identifying emissions-reduction opportunities across the energy value chain; the abatement versus purchasing external carbon credits; and building a portfolio of reduction, removal and carbon-credit opportunities.

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain a good working knowledge on carbon credits capturing and trading
- Discuss climate change, decarbonization and carbon markets and carbon footprinting and GHG emissions accounting
- Recognize the fundamentals of carbon credits and carbon offsets including compliance and voluntary carbon markets
- Carryout carbon credit standards, methodologies and integrity as well as decarbonization and carbon management
- Identify carbon credit generation opportunities and carbon capture, utilization and storage (CCUS)
- Develop a carbon credit project and implement measurement, reporting and verification (MRV)
- Employ carbon credit certification and issuance process as well as carbon project economics and feasibility assessment
- Describe carbon market architecture and trading mechanisms and apply carbon credit pricing and market analysis
- Apply carbon credit trading process and carbon trading risk management
- Review international carbon markets and Article 6 and identify emissions-reduction opportunities across the energy value chain
- Prioritize abatement versus purchasing external carbon credits and build a portfolio of reduction, removal and carbon-credit opportunities

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 credits capturing & trading for environmental and sustainability professionals, energy and utilities professionals, corporate executives and decision makers, legal and compliance professionals and other technical staff.

Course Fee

US$ 3,750 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)

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 **1.65 CEUs** (Continuing Education Units) or **16.5 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 Tawfik, 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, 28th of September 2026***

0800 – 0815	*Registration & Coffee*
0815 – 0830	*Welcome & Introduction*
0830 – 0845	***PRE-TEST***
0845 – 0930	***Climate Change, Decarbonization & Carbon Markets*** *Climate Change Science, Greenhouse Gases & Global Warming Potential • Paris Agreement, Global Net Zero Commitments & Decarbonization Pathways • Role of Carbon Pricing in Accelerating Emissions Reductions • Carbon Markets within Corporate Sustainability & Climate Strategies*
0930 – 0945	*Break*
0945 – 1115	***Carbon Footprinting & GHG Emissions Accounting*** *Understanding Scope 1, Scope 2 & Scope 3 GHG Emissions • Organizational & Operational Boundaries for Carbon Inventories • Calculating Emissions Using Activity Data & Emission Factors • Establishing Baselines, Benchmarks & Emissions Intensity Indicators*
1115 – 1145	***Fundamentals of Carbon Credits & Carbon Offsets*** *Definition, Purpose & Lifecycle of a Carbon Credit • Understanding One Tonne of CO_2 Equivalent (tCO_2e) as the Accounting Unit • Difference between Carbon Credits, Allowances, Offsets & Removals • Principles of Additionality, Permanence, Leakage & Avoiding Double Counting*
1145 – 1200	***Compliance & Voluntary Carbon Markets*** *Structure & Purpose of Compliance Carbon Markets • Voluntary Carbon Markets (VCMs) & Corporate Participation • Emissions Trading Systems (ETS) & Cap-and-Trade Mechanisms • Comparison of Regulated Allowances & Project-Based Carbon Credits*
1200 - 1215	*Break*

1215 – 1300	***Carbon Credit Standards, Methodologies & Integrity*** *Overview of Major Carbon-Credit Standards & Registries • Selecting Appropriate Methodologies for Carbon Projects • Project Eligibility, Additionality & Baseline Requirements • Environmental Integrity, Transparency & High-Quality Carbon Credits*
1300 – 1350	***ADNOC Decarbonization & Carbon Management Context*** *Linking Carbon Markets with ADNOC's Net Zero by 2045 Ambition • Energy Efficiency, Electrification, Methane Reduction & Flaring Initiatives • Role of CCUS in Reducing Emissions from Hard-to-Abate Operations • Connecting Measurable Emissions Reductions with Carbon Asset Opportunities*
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, 29th of September 2026***

0800 – 0830	***Identifying Carbon Credit Generation Opportunities*** *Screening Operations for Potential Emissions-Reduction Projects • Energy Efficiency & Fuel-Switching Opportunities • Methane Abatement, Flare Reduction & Process Optimization Projects • Renewable Energy, Nature-Based Solutions & Carbon Removal Opportunities*
0830 – 0930	***Carbon Capture, Utilization & Storage (CCUS)*** *Principles & Technologies for CO_2 Capture • Pre-Combustion, Post-Combustion & Other Capture Approaches • CO_2 Compression, Transportation, Utilization & Geological Storage • Evaluating CCUS Projects for Emissions Reduction & Carbon Value Creation*
0930 – 0945	*Break*
0945 – 1100	***Developing a Carbon Credit Project*** *Defining Project Boundaries, Ownership & Crediting Periods • Establishing Credible Baseline Emissions Scenarios • Demonstrating Additionality & Quantifying Project Reductions • Preparing Project Documentation for Validation & Registration*
1100 – 1200	***Measurement, Reporting & Verification (MRV)*** *Designing Effective Carbon Monitoring & Data Collection Systems • Calculating Achieved GHG Emissions Reductions or Removals • Data Quality, Uncertainty Management & Audit Trails • Independent Validation, Verification & Assurance Processes*
1200 - 1215	*Break*
1215 – 1300	***Carbon Credit Certification & Issuance Process*** *Project Design, Validation & Registration Stages • Monitoring Reports & Verification Requirements • Credit Issuance, Serialization & Registry Management • Transfer, Retirement, Cancellation & Tracking of Carbon Credits*

1300 – 1350	***Carbon Project Economics & Feasibility Assessment*** *Capital Expenditure, Operating Expenditure & Project Lifecycle Costs • Estimating Potential Carbon-Credit Volumes & Revenues • Marginal Abatement Cost Curve (MACC) Applications • NPV, IRR, Payback Period & Sensitivity Analysis for Carbon Projects*
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, 30th of September 2026***

0800 – 0830	***Carbon Market Architecture & Trading Mechanisms*** *Primary versus Secondary Carbon Markets • Spot Transactions, Forwards, Futures & Other Contractual Structures • Exchange-Based versus Over-the-Counter (OTC) Transactions • Carbon Credit Buyers, Sellers, Brokers, Exchanges & Intermediaries*
0830 – 0930	***Carbon Credit Pricing & Market Analysis*** *Supply & Demand Fundamentals Affecting Carbon Prices • Impact of Project Type, Geography, Vintage & Methodology • Quality Premiums & Discounts in Carbon-Credit Valuation • Analyzing Market Trends, Liquidity & Price Volatility*
0930 – 0945	*Break*
0945 – 1030	***Carbon Credit Trading Process*** *Developing Carbon-Credit Procurement & Sales Strategies • Conducting Counterparty & Credit-Quality Due Diligence • Negotiating Pricing, Volume, Delivery & Contractual Conditions • Settlement, Registry Transfer, Retirement & Transaction Documentation*
1030 – 1130	***Carbon Trading Risks & Risk Management*** *Market, Price, Liquidity & Counterparty Risks • Regulatory, Policy & Methodology-Change Risks • Reputational Risks, Greenwashing & Low-Integrity Credits • Hedging, Diversification, Limits & Carbon Portfolio Controls*
1130 – 1200	***International Carbon Markets & Article 6*** *Paris Agreement Article 6 Framework & Cooperative Approaches • Internationally Transferred Mitigation Outcomes (ITMOs) • Corresponding Adjustments & Prevention of Double Counting • Implications of Evolving International Carbon-Market Rules for Corporations*
1200 – 1215	*Break*
1215 – 1315	***Developing an ADNOC-Oriented Carbon Credit Strategy*** *Identifying Emissions-Reduction Opportunities across the Energy Value Chain • Prioritizing Abatement versus Purchasing External Carbon Credits • Building a Portfolio of Reduction, Removal & Carbon-Credit Opportunities • Practical Workshop: Developing a Carbon Credit Capture & Trading Roadmap*
1315 - 1330	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1330 - 1345	***POST-TEST***
1345 – 1400	*Presentation of Course Certificates*
1400	*Lunch & End of Course*

Practical Course Outcome

By the end of the course, participants should be able to:-

- Move through the complete carbon-credit value chain
- Measure emissions
- Identify reduction/capture opportunities
- Develop and quantify projects
- Apply MRV
- Validate & verify reductions
- Generate credits
- Assess credit quality & value
- Trade or retire credits
- Manage a corporate carbon portfolio.

Practical Sessions

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

Course Coordinator

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