COURSE OVERVIEW HE0334-4D
Verification and/or Validation for Carbon Emission

Course Title
Verification and/or Validation for Carbon Emission

Course Date/Venue
December 14-17, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
HE0334-4D

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 delves into the essential aspects of carbon emission verification and validation, focusing on ensuring that carbon reduction claims are credible and meet global regulatory requirements. Topics include verification processes for renewable energy projects, forest conservation, and industrial emissions reductions. Participants will acquire the skills to evaluate emissions data, perform audits, and manage carbon offset programs to comply with international carbon markets and certifications.

During this interactive course, participants will learn the internal auditing according to ISO 19011 including verification, validation; the verifier role and responsibility and third part verification and/or validation; and the ISO 14064-1, ISO 14064-2, ISO 14064-3, ISO 14065, ISO 50001 and ISO 14001.

Course Objectives

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

- Apply and gain good working knowledge on verification and/or validation for carbon emission
- Carryout internal auditing according to ISO 19011 including verification, validation
- Identify verifier role and responsibility and third part verification and/or validation
- Discuss the ISO 14064-1, ISO 14064-2, ISO 14064-3, ISO 14065, ISO 50001 and ISO 14001

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 verification and/or validation for carbon emission for environmental auditors, carbon management professionals, sustainability managers, compliance officers, environmental consultants, climate change specialists, carbon offset project developers, regulatory authorities or government officials, corporate social responsibility (CSR) professionals, project managers, risk managers, carbon market analysts, energy managers 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 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 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
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**. 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 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. Tarek Samir, PhD, MSc, BSc, is a **Senior Chemical Engineer** and an **International Expert** in **Analytical Laboratory** with over **20 years** of integrated industrial experience and academic experience as a **University Professor**. His expertise widely covers in the areas of **Laboratory Practice**, **Analytical Measurement & Uncertainty**, **Uncertainty Estimation**, Statistical Process Control (**SPC**), **GC**, **GC/MS**, **HPLC**, **Validation Method**, **Laboratory Equipment**, **Laboratory Quality Management Systems** (**ISO 17025**), Lab Safety & Health, Good Laboratory Practice (**GLP**), **Water Pollution Control**, **Water Distribution** Systems, **Water Networking**, **Hydraulic** Modelling Systems, **Pumping Stations**, **Water Reservoirs**, **Water Storage Tanks**, **Water Treatment**, Extended Activated Sludge Treatment, **Water Analysis**, **Water Treatment** Technology, **MBBR**, **Hydraulic Design**, **Hydraulic Network** System, **Water Pipeline** System, **Water Distribution System**, **Water Quality** Analysis, **Steam Boiler**, **Hydro-Treating Technology**, **Water Storage Tanks**, Quantitative & Qualitative Analysis of Organic Micro-Pollutants, **Water Quality** Management, Advanced **Organic Material & Separation**, **Water Desalination**, **Oil Polluted Wastewater Treatment**, **Reverse Osmosis**, **Water Quality** Assessment, **Water Assurance & Quality Control** and **Measurement Uncertainty Estimation**. Further he is also well versed in **Green House Gas** Accounting, Sustainability and Green Building, **Greenhouse Gas (GHG) Reporting**, Validation and Audit, **Green House Gas (GHG)** Management, **Basics of Organizational Greenhouse Gas** (GHG) Accounting, Lead Auditor **ISO 50001**, **ISO 14001 Awareness**

During Dr. Tarek's career life, he has handled challenging positions wherein he has acquired his wide technical and practical experience in the field of process & chemical industry such as the **Professor**, **Associate Professor**, **Lead Auditor**, **Technical Expert**, **Technical Auditor**, **Assistant Researcher**, **Researcher** and **Senior Instructor/Lecturer** for various companies and universities such as the National Researcher Center, Van Hall Institute – Part of Wagnningen University, Science Valley Academy and Benha University.

Dr. Tarek has a **PhD**, **Master** and **Bachelor** degrees in **Chemical Engineering**. Further, he is a **Certified Instructor/Trainer** and published numerous technical papers, patents and journals. He has further delivered numerous trainings, courses, seminars, conferences and workshops globally.

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, 14th of December 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 - 0900	***Introduction to Verification and/or Validation for Carbon Emission***
0900 - 0930	***Internal Auditing According to ISO 19011***
0930 - 0945	*Break*
0945 - 1230	***Internal Auditing According to ISO 19011 (cont'd)***
1230 - 1245	*Break*
1245 – 1420	***Verification & Validation***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday, 15th of December 2025***

0730 - 0930	***Lead Verifier Role & Responsibility***
0930 - 0945	*Break*
0945 - 1030	***Verifier Role & Responsibility***
1030 - 1230	***Third Part Verification & / or Validation***
1230 - 1245	*Break*
1245 - 1420	***Third Part Verification & / or Validation (cont'd)***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: ***Tuesday, 16th of December 2025***

0730 - 0930	***ISO 17029***
0930 – 0945	*Break*
0945 - 1130	***ISO 17029 (cont'd)***
1130 - 1230	***ISO 14060's series (ISO 14064-1, ISO 14064-2, ISO 14064-3)***
1230 - 1245	*Break*
1245 – 1420	***ISO 14060's series (ISO 14064-1, ISO 14064-2, ISO 14064-3) (cont'd)***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: ***Wednesday, 17th of December 2025***

0730 – 0930	***ISO 14065***
0930 - 0945	*Break*
0945 - 1130	***ISO 14065 (cont'd)***
1130 - 1230	***ISO 50001***
1230 - 1245	*Break*
1245 - 1345	***ISO 14001***
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
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