

Organiser



Implemented by



WEBINAR
**CERTIFIED CARBON AUDITOR
TRAINING COURSE**

(19th Intake)

11 - 14 January 2023

Supporting Organisations



Background

The emissions of carbon dioxide (CO₂) and other greenhouse gases due to power generation, transportation and other industrial / commercial activities are contributing to climate change and environmental impacts worldwide. Each corporation should immediately implement carbon-reducing measures to mitigate the problems. The first important step is to carry out a carbon audit to identify the sources of carbon emissions and quantify the carbon footprint of a corporation. As energy consumption is one of the major sources of carbon emissions, it is always effective to reduce carbon footprint through implementing energy saving measures.

As an active professional institution and one of the green partners in Hong Kong, the Energy Institute is active in providing timely and quality certified carbon auditor courses to train engineers and other professionals to understand the audit process and to acquire the necessary skills to conduct professional carbon audits.

Course Objectives

The Certified Carbon Auditor Training Course is designed for engineers and other professionals who have an interest or involvement with greenhouse gas accounting, reporting and management in Hong Kong. After taking the course, the participants will be able to:

- Appreciate the function of carbon audits as a means to help business sectors and corporations in estimating their carbon (greenhouse gas) footprints thereby setting objectives to manage and reduce the footprints;
- Understand the basic carbon audit processes and learn the skills to undertake such audit, with an appreciation of Hong Kong's requirements in carbon auditing; and
- Establish network in the carbon business through certification as certified carbon auditor with the Energy Institute in UK, which has a membership of over 14,000 individuals and 300 companies all over the world.

Main Topics

1. Climate Change and Potential Local Challenges

- Energy and climate change
- Kyoto greenhouse gases
- Hong Kong's GHG inventory and major sources

2. Greenhouse Gas Accounting and Reporting

- International GHG Protocol
- Setting Organisational and Operational boundaries
- Hong Kong Accounting and Reporting Guide
- Emissions factors and calculations
- Workshop Activities – Collating and Sense checking emissions data

3. Carbon auditing

- Carbon Auditing in Practice
- Scope 2 emissions guidance
- Organisational boundary guidance for leased assets
- Workshop Activity – Carbon auditing case study exercise (*Applying the Hong Kong GHG reporting guide to a case study HK office building*)
- Preparing a greenhouse gas report

4. International carbon policies

- Hong Kong policy & actions
- EU & UK policy & actions
- Other international policies
- IPCC reports

5. Energy and Carbon Management

- Energy Management Practice & International Standards
 - Energy Auditing – process & reporting
 - Energy and carbon reduction solutions
 - Low & Zero Carbon technologies
 - Emission reduction versus offsetting
 - Emissions trading schemes
- (*air conditioning, lighting, motors, building facilities*)

6. Developing carbon accounting practice beyond the Hong Kong Guide

- Paris Agreement and COP26 commitments
- IPCC guidance on fugitive emissions
- Scope 3 value chain emission sources
- Review of ISO 14064-1:2018 GHG organisational accounting & reporting requirements
- Science Based Targets
- Science Based Targets initiative (SBTi) Corporate Standard
- Net-zero climate strategies and pathways

Note: Contents are subject to minor change without prior notice.

Course Delivery

The course will include a mixture of tutor led training, group discussion and delegate activities and will be assessed through a 2.5 hour written/online examination. Training will focus on the greenhouse gas reporting protocol developed by the Hong Kong SAR Government and will also cover practical energy and carbon auditing skills. Delegates will gain practical experience by completing a carbon audit using a case study Hong Kong office building.

Examination

- Participants must pass the examination and attend all the webinar sessions in order to receive the certificate
- Examination time period: 2.5 hours
- For those who fail the examination they may re-sit the examination at the next course organised within one year.

Key Speakers

Mr Chris BURGESS, BSc, CEng, MEI, has a degree in Mechanical Engineering and over 35 years' experience within the energy industry and fifteen years as an independent energy consultant. Chris had a number of technical and marketing roles within British Gas and Midlands Electricity over 18 years before establishing Alpha Energy Consultancy in 1998 and is now Head Energy Management Trainer for the Energy Institute - London.

Chris specialized in implementing energy management and technical solutions to reduce operational cost and carbon emissions. He has carried out energy and carbon audits for a wide range of public and private sector organizations and is experienced in identifying, and implementing efficiency measures based on both capital investment and staff engagement solutions.


He delivers bespoke energy management and carbon audit training courses on behalf of the Energy Institute and is author of CPD training modules for Energy in Buildings and Industry magazine.

Chris has been an accredited Assessor for the Carbon Trust Standard (UK carbon management certification scheme) and as Lead Verifier (ISO 14064), under the Climate Registry Scheme, for Green House Gas verification in the US following the verification of GHG emissions at Stanford University, California and Utah Transit Authority, Utah. Chris also trained as Lead Verifier for BS 16001.

Ir Prof. Michael KH LEUNG, PhD, CEng, MEI, RPE, MHKIE, is the Past Chairman of Energy Institute Hong Kong. He is also a Professor of School of Energy and Environment of City University of Hong Kong and Shun Hing Education and Charity Fund Professor of Energy and Environment. The main areas of his teaching and research are energy efficiency, renewable energy and building services engineering. He is also experienced in energy audit and carbon audit.

Ir Gary CHIANG, BEng, MEng, CEng, MHKIE, MCIBSE, MEI, REA, BEAM Pro, Past Chairman, Energy Institute Hong Kong / Customer Experience & Business Development Lead, CLPe Commerce Limited

General Information

Date & Time:	Lectures (Webinar)	11-13 January 2023 (Wed - Fri): 14:00 - 20:30 14 January 2023 (Sat): 12:00 – 20:30
	Online Examination	2.5 hour online examination within 2 weeks (to be agreed with the UK course instructor)
Teaching & Learning Activities:	Lectures, Assignments and Examination	
Medium of Instruction:	English	
Target Participants:	Practicing Engineers, Energy Managers, Energy Auditors, Environmental Officers, Building Services Managers, Plant Managers, etc.	
Course Fee:	Webinar	HK\$10,000 for Members of Organiser or Supporting Organisations HK\$11,000 for Non-members
Registration:	 <ul style="list-style-type: none"> Please register through online system: https://bit.ly/3dGabJt. We shall reply to you immediately to acknowledge the receipt of your registration and provide you instructions on how to pay the course fee. Your enrolment is confirmed only after we receive your payment. Last day of registration: 16 December 2022 The Organiser reserved the right to cancel the course in the case of low registration rate. All registrants will be informed of the cancellation and refund arrangement on or before 28 December 2022. 	
Certificate:	Certificate will be issued by Energy Institute and carry CIBSE CPD accreditation approval. (Certificate sample is attached on the next page)	
Remarks:	Fulfil part of the requirements to qualify for Certified Carbon Auditor (CCA) to conduct the Carbon Footprint of Products (CFP) quantification and reporting for a particular product category under CIC Green Product Certification owned by Construction Industry Council (CIC). For detailed information about the qualification of CCA, please visit at http://cicgpc.hkgbc.org.hk/subpagex.php?serial=129 .	
Enquiries:	Ms April Li Tel: 2967 8855 Email: aprilagc@gmail.com	



This is to certify that

CHAN Tai Man

has successfully completed
the Energy Institute's

**Certified Carbon Auditor
Training Course**

on 8 - 11 June 2022

delivered virtually in partnership with

The Energy Institute Hong Kong Branch



Chris Burgess
Course Lecturer
Energy Institute



Nick Wayth
Chief Executive
Energy Institute

Issued by: Energy Institute, 61 New Cavendish Street
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