



# Carbon footprinting

Two day training course

28 – 29 June 2011, Manchester, UK

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Climate change is increasingly recognised as the biggest environmental threat we face, and as such it is also becoming a critical business issue. Organisations of all types and sizes are under an increasing pressure to provide information on their carbon footprint and to demonstrate what they are doing to mitigate the effects of climate change. This IChemE course has been designed to help organisations address these pressures by providing hands-on experience on estimating their carbon footprints.

### Course aims

This two-day course is aimed at understanding the fundamentals for estimating carbon footprints of products, processes and technologies. Life Cycle Analysis (LCA), used to calculate the carbon footprint along supply chains, will be explained and applied in a number of practical case studies and hands-on exercises using the CCaLC carbon footprinting software tool. The differences between the ISO 14044 and PAS2050 standards will be examined. The advantages and disadvantages of carbon labelling will also be discussed.

### Objectives

The participants can expect to learn about a range of issues related to carbon footprinting, including:

- the requirements of the LCA and carbon footprinting standards ISO 14044 and PAS2050
- how to estimate a carbon footprint for business-to-business and business-to-consumer communication
- how to identify and reduce carbon 'hot spots' along supply chains.

### Who will benefit

This course is aimed at corporate and other organisations, and could in particular be useful for:

- environmental and sustainable development managers
- technical and operations managers
- communications and marketing managers
- R & D managers
- estates and business development managers
- any other professionals who wish to update their knowledge on carbon footprint-related issues.

### Course outline

#### Day one

- approaches to calculating carbon footprints
- LCA and carbon footprinting standards ISO 14044 and PAS2050
- introduction to the CCaLC carbon footprinting tool
- hands-on exercise 1 calculating the carbon footprint (business-to-business)

#### Day two

- hands-on exercise 2
  - calculating the carbon footprint (business-to-consumers)
  - identifying the carbon hot spots
  - minimising the carbon footprint
- discussion and course summary.

## Course presenters

### Professor Adisa Azapagic FIChemE FRSC FRSA

A chartered chemical engineer and a Fellow of the IChemE, Adisa is Professor of Sustainable Chemical Engineering at the University of Manchester. She is internationally recognised for her work in life cycle assessment and carbon footprinting and has masterminded the IChemE award winning CCaLC carbon footprinting tool ([www.ccalc.org.uk](http://www.ccalc.org.uk)). She leads a group of 25 researchers at Manchester, working in close collaboration with over 100 companies and other organisations on issues related to sustainable development of industrial systems ([www.sustainable-systems.org.uk](http://www.sustainable-systems.org.uk)).

### Dr rer.nat. Heinz Stichnothe

Previously at The University of Manchester where he was Coordinator for the CCaLC project, Heinz is based at the Institute for Agricultural Technology and Biosystems Engineering in Germany. He specialises in corporate and product carbon footprinting. Heinz has also been involved in the development of the CCaLC tool.

## Course prerequisites

The course will involve computer exercises so that participants must be familiar with the MS Office and the related software. Participants are also required to bring their own laptop to be able to complete the exercises. The laptops must be enabled for uploading Excel spreadsheets and other MS Office documents.

The carbon footprinting tool CCaLC will be used for the hands-on exercise; participants may wish to download this free-of-charge tool from [www.ccalc.org.uk](http://www.ccalc.org.uk) prior to the course and familiarise themselves with its functionality. However, this is not necessary to be able to follow the course, as full training will be provided during the course.

## Venue

Staff House Conference Centre  
The University of Manchester  
Sackville Street Campus  
Manchester  
M1 3AL  
UK

## Accommodation

Accommodation is not included in the delegate fee.

If you need any help with booking a hotel, contact our agent, House of Usher on +44 (0) 1788 520970, quoting IChemE when booking.

## Fees

IChemE member – £700 + VAT

Non-member – £800 + VAT

## Discounts

Discounts are available to companies booking more than one place:

2 places – **5% discount**

3 places – **10% discount**

4 or more places – **15% discount**

Multiple places must be booked at the same time to qualify.

## How to book

Complete and return the booking form by fax to  
**+44 (0)1788 560833**

Register online at  
[www.icheme.org/carfoot](http://www.icheme.org/carfoot)

## More details

[www.icheme.org/carfoot](http://www.icheme.org/carfoot)

Tel: +44 (0)1788 578214

Email: [courses@icheme.org](mailto:courses@icheme.org)

## In-company training

If you have several colleagues interested in this course, why not consider running it in house?

For more details contact the courses department or visit [www.icheme.org/incompany](http://www.icheme.org/incompany)

# Registration form

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**Complete this form and fax it to: +44 (0)1788 560833**

I am a member of IChemE:  Yes  No membership number: .....

Last name: .....

First name: .....

Title (Dr/Mr/Miss/Mrs/Ms/Prof/Eur Ing): ..... Gender:  Male  Female

Work details – company: .....

EC VAT registration number : .....

Job title: ..... Department: .....

Country: ..... Post/zip code: .....

Address: .....

Town/city: ..... County/state: .....

Direct telephone: ..... Direct fax: .....

Email (for pre-course correspondence): .....

### Data protection

In accordance with the Data Protection Act IChemE (and companies processing data on its behalf) will hold and use the data contained on this form for administration purposes, to keep you informed of its activities, and offer goods and services provided by the Institution. If you would prefer not to receive IChemE product and service literature mark the box

If you would prefer not to receive emails on IChemE product and service literature mark the box

The Institution is fully registered under the Data Protection Act as both a data user and a computer bureau.

IChemE is a registered charity in England and Wales, and a charity registered in Scotland (SC 039661)

IChemE offices in Kuala Lumpur, London, Melbourne, Rugby, Shanghai and Wellington

[www.icheme.org](http://www.icheme.org)

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**Method of payment (payment must be received in full before the event date otherwise admission cannot be guaranteed)**

Cheque enclosed (made payable to Institution of Chemical Engineers).  
Send to IChemE, accounts department, Davis Building, Railway Terrace, Rugby, Warwickshire, CV21 3HQ, UK

Debit my credit/debit card: (payment in **£ sterling** only):

Cardholder name (as it appears on the card): .....

Billing address (if different from above): .....

.....

Cardholder's signature: ..... Telephone number: .....

Visa  Visa Debit  MasterCard  UK Maestro  Solo  AMEX

Card number:

Valid from date:   /   Expiry date:   /   Issue number:  CVC code :

(3 digits on reverse of (debit card only) card or 4 digits on the front of AMEX)  
This is mandatory for VISA and MasterCard

Invoice my company quoting purchase order number: .....

**Please note that a registration cannot be processed unless a copy of your purchase order is received with your registration form.**

**Your booking will be confirmed by IChemE on receipt of either: an official purchase order or cleared funds.**

**By submitting this form you have agreed to our terms and conditions and cancellation policy.**

### Cancellation policy

Cancellations received in writing 28 days prior to the event will be subject to an administration charge of 10% of the fees plus VAT. No refunds will be given for non-attendance or cancellations received less than 28 days prior to the event. Substitutions are welcomed at any time. We reserve the right to cancel or alter the programme.

*IChemE's VAT registration no is GB 661 5413 48*