



# Carbon Footprinting

26–27 June 2013, Manchester, UK

# Learn how to estimate the carbon footprints of your products and technologies

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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 course has been designed to help organisations address these pressures by providing hands-on experience on estimating the carbon footprints of their products and technologies.

## Course objectives

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.

## You will learn

You can expect to learn about a range of issues related to carbon footprinting of products and technologies, including:

- the requirements of the LCA and carbon footprinting standards ISO 14044 and PAS2050
- how to estimate a carbon footprint of products and technologies 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 one
  - calculating the carbon footprint (business-to-business)

### Day two

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

“Excellent lecturing both in style and content. Very good hands-on help.”

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## Course presenters

**Professor Adisa Azapagic** FIChemE FRSC FRSA  
HonFSE

A chartered chemical engineer and a Fellow of 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 20 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 Harish Jeswani**

Harish is a research fellow at the University of Manchester. He specialises in carbon footprinting and life cycle assessment, and has been involved in the development of the CCaLC tool and the accompanying case studies.

## Course prerequisites

The course will involve computer exercises so participants must be familiar with 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 as well as executable software.

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 the venue's conference team on **+44 (0)161 306 4089**. Please quote 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 email to [ar@icheme.org](mailto:ar@icheme.org) or by fax to **+44 (0)1788 560833**

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

## More details

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

**Tel: +44 (0)1788 534431**

**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 a quote or to discuss your requirements contact [courses@icheme.org](mailto:courses@icheme.org)

## You may also be interested in

Better by Design – Sustainable Business and Chemical Engineering

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

“A very pragmatic approach to a potentially difficult subject.”

New Britain Oils

# Registration form

## Carbon Footprinting

Complete this form and return it by email to [ar@icheme.org](mailto:ar@icheme.org) or by fax to +44 (0)1788 534403

I wish to book a place on the **Carbon Footprinting** course on **26–27 June 2013** in Manchester, UK

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

### 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. Terms and conditions are available at: [www.icheme.org/terms](http://www.icheme.org/terms)**

### 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*