Net Zero South Wales

Carbon Footprinting Course – Outline of Modules

The course is split into 5 modules which can be taken independently or all as one course.

To order visit https://www.netzero-southwales.co.uk/carbon-footprinting-course/.

For a pricing guide see https://www.netzero-southwales.co.uk/courses/.

Details of the Modules

Module 1 This module includes a 1-1.5hr presentation video along with slides and presentation notes. Module 1 covers the definitions of Scope 1 and 2 and includes all of the subtleties that you will come across reporting Scope 1 & 2 emissions, as well as conceptual examples designed to ensure your knowledge base is on a firm footing.

Common questions Module 1 will answer (and a good way to test whether or not you need to take this module) are:

- How to deal with green electricity tariffs when reporting Scope 2 emissions.
- How you deal with leased assets such as vehicles when reporting Scope 1 emissions.
- Why Scope 1 & 2 does not include all of the emissions associated with electricity, gas and fuel use.
- Whether Scope 2 includes solar panels, solar thermal or underfloor geothermal heating.
- How to deal with biogenic emissions such as woodburners or wood pellet boilers.

Module 2 : This module includes a 1-1.5hr presentation video along with slides and course notes. Module 2 covers Scope 1 and 2 in more technical detail and includes extensive worked examples of how to calculate Scope 1 and 2 emissions. This module contains the 'how to' of calculating your Scope 1 and 2 emissions inventory.

Module 1 & 2 Exam: if you are only taking modules 1 & 2 then there is the option to take the 1hr Module 1 & 2 exam and get a formal certification that can be presented to employers as evidence of your qualification.

Module 3: This module includes a 1-1.5hr video presentation along with slides and course notes. Module 3 covers in detail the theory of Scope 3 emissions.

Scope 3 emissions relate to the supply chain or value chain emissions, including upstream and downstream emissions, and are more difficult to quantify than either Scope 1 or Scope 2 emissions. There are generally three approaches applied to calculating Scope 3 emissions, and these are known as Tier 1, Tier 2 and Tier 3 methodologies. Module 3 introduces these three methodologies and then explains why Tier 1, or the input-output methodology, is the best methodology to use at the outset.

An outline of Module 3 is as follows:

- Introduction (10mins)
- Introducing Scope 3 (10mins)
- The Scope 3 categories & boundary setting (10mins)
- The Scope 3 Tier 3 methodology and identifying hotspots (30mins)
- Incorporating Scope 3 Tier 1 & 2 methods (15mins)
- Plenary, questions, next steps (10mins)

Module 4: This module includes a 1-1.5hr presentation video along with slides, course notes and accompanying supporting documentation

Module 4 covers in detail the practicality of how to calculate Scope 3 emissions. It explains how to use the NACE classification of the economy to convert your financial accounts to a format that can be used in conjunction with the input/output emissions factors to work out your carbon footprint.

An outline of Module 4 is as follows:

- Introduction & key terms (10mins).
- Using NACE (30mins).
- Using the input/output emissions factors (15mins).
- Doing multiple iterations (10mins).
- Bringing it all together & hotspots (10mins)
- Plenary, Q&A, next steps (10mins).

Module 5: Module 5 covers how to turn your carbon footprint calculations into a fully referenced report that also includes a carbon reduction plan.

This module includes a 1-1.5hr presentation video along with slides and a template report for use with your own carbon footprinting report.

A basic carbon footprint report includes an explanation and discussion of the methodology used along with details of the carbon footprint process itself and the approximations and problems that were encountered and how they were dealt with. It should also include a detailed analysis of the footprint using appropriate charts, and finish off with a carbon reduction plan that is based on the hotspots that the report identifies along with realistic recommendations on how the greenhouse gas impacts of these hotspots can be reduced.

An outline of Module 5 is as follows:

- Introduction & key terms (10mins).
- Using the report template (10mins).
- The executive summary, introduction and methodology sections (15mins).
- The boundaries and uncertainties section (15mins).
- The results and analysis sections (15mins).
- The greenhouse gas reduction recommendations 10mins).
- Plenary, Q&A, next steps (10mins).

Module 3 & 4 Exam: if you are only taking modules 3 & 4 then there is the option to take the 1hr Module 3 & 4 exam and get a formal certification that can be presented to employers as evidence of your qualification.

Full Course Exam: if you are taking all five modules then there is the option to take the 2hr course exam and get a formal certification that can be presented to employers as evidence of your qualification.