



## LCA training using SimaPro

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This course is for people who are new to LCA or who have been playing around the edges but have never really gotten a solid understanding of what the LCA method is and what it isn't. We cover the fundamentals of LCA and standardised procedures and provide an overview of how LCA is undertaken in a practical sense.

The course also provides case studies and tutorials for self-study in between the course slots if you wish to do so.

We have redesigned the course into 4 easy-to-digest sessions, spread across two days. To accommodate individuals not able to travel to Melbourne, the course can also be attended online.

To help prepare you for the course, we have also scheduled a 2-hour online introductory session on the Thursday.

### Course Content

#### INTRODUCTORY TOPICS

- ▶ Structure and purpose of LCA: What LCA addresses and how it's structured to do this.
- ▶ LCA standards: What are they and what do they require?
- ▶ Goal and scope definition: Key to setting up the LCA.
- ▶ Functional units: The basis for comparison. Getting them right.
- ▶ System boundaries: How deep, how wide, how do we decide?
- ▶ Inventory data: Modelling the foreground data and sourcing background data.
- ▶ Structure of Life Cycle Impact Assessment: What are characterisation, normalisation and weighting?

#### EXPLORING LCA METHODOLOGY

- ▶ Consequential LCA: What it is and how it differs from attributional LCA.
- ▶ Dealing with coproduction: Allocation hierarchy, joint and combined production.
- ▶ Recycling loops: How best to treat recycling between different product life cycles.
- ▶ Impact Assessment: Midpoint and Endpoint methods. How do damage models work?
- ▶ Input-output analysis: Using economic data to model life cycles.

#### USING SIMAPRO

- ▶ Structuring LCA models: Getting the answer out in the form you need.
- ▶ Using parameters: Once you go there you will never look back.
- ▶ Scenario: Building fewer models but having more scenarios.
- ▶ Making the data your own: Manipulating the inventory data for your LCA.
- ▶ Import and export: Typing in data sucks. Getting data into and back from Excel.
- ▶ SimaPro analysis: Using groups and SimaPro audit features.
- ▶ Building impact methods: Interrogating and modifying impact models.
- ▶ Uncertainty: Specifying uncertainty and understanding Monte Carlo results.

## Who Should Do The Course?

- ▶ People wanting to familiarise themselves with LCA, begin undertaking LCAs or managing their implementation.
- ▶ People wanting to move beyond carbon accounting into LCA.
- ▶ People who have been fumbling around in LCA for a while but never really nailed the fundamentals.

## IT Requirements

- ▶ Excel
- ▶ GoToMeeting
- ▶ SimaPro (will be supplied if participants do not have a working copy) (Windows based. If you are a Mac user, please advise us upon registration so we can provide you with access)
- ▶ PIQET (will be supplied if participants do not have a working copy)

## About Your Sensei

Based in Melbourne, Tim Grant has worked in LCA for over 20 years and has undertaken over 50 full LCA studies including the development of the Australian National Life Cycle Inventory Database. He is the founding member and current director of the Australian Life Cycle Assessment Society and is a pillar of the international Life Cycle community through his involvement with the UNEP/SETAC Life Cycle Initiative, ISO standards development committee for ISO14048 and the Forum for Sustainability through Life Cycle Innovation.

## Dates and Times

ONLINE INTRODUCTORY SESSION:

THURSDAY 8<sup>TH</sup> SEPTEMBER:

Session 1: 14h00 - 16h00

COURSE:

MONDAY 12<sup>TH</sup> SEPTEMBER:

Session 2: 10h30 - 13h00

Session 3: 14h00 - 16h30

WEDNESDAY 14<sup>TH</sup> SEPTEMBER:

Session 4: 10h30 - 13h00

Session 5: 14h00 - 16h30

## Cost

Professionals: \$1,800 ex. GST

Students: \$900 ex. GST

## Enquiries and Registration

[courses@lifecycles.com.au](mailto:courses@lifecycles.com.au)

[www.lifecycles.com.au](http://www.lifecycles.com.au)

