

LCA 1.005 – Fundamentals of LCA

For those looking to get their head around Life Cycle Assessment (LCA), our leading consultants will guide you in an informative and digestible training, as a side event prior to the ALCAS conference.

This full-day training is jam-packed with case studies, guest speakers and practical exercises including using PIQET LCA software.

We will also largely focus on the use of LCA for comparative studies, understanding hotspots and Environmental Product Declarations (EPD), to help you understand how to apply LCA in the real world.

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?

EXPLORING LCA METHODOLOGY

- 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.
- 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 LCA SOFTWARE

- PIQET: Practical exercises using PIQET LCA software.

APPLICATION OF LCA

- Understand how LCA calculations can provide a quantitative basis for the following:
- Identifying hotspots: A pre-cursor to developing sustainability improvements for existing product systems.
- Comparative studies: A study required to assert the superiority of a product.
- Environment Product Declaration (EPD): A transparent report providing objective, comparable and third-party verified data of a product or services' environmental performance.

Details

WHO SHOULD DO THE COURSE?

- People who are new to LCA
- People who have been fumbling around in LCA for a while but never really nailed the fundamentals.

IT REQUIREMENTS

- You will need access to a PC or laptop to run PIQET LCA software.
- Lifecycles will have two laptops with SimaPro to assist participants wanting to look under the hood of the LCA software.

ABOUT YOUR TRAINER

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.

COST

- Professionals: \$1,000 ex. GST
- Students: \$450 ex. GST
- All of which would be removed from any future fee should they choose to do the full LCA 1.01 training

ENQUIRIES AND REGISTRATION

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lifecycles.com.au/life-cycle-assessment-training