

Life cycle management training

Equipping professionals to understand and apply lifecycle tools to develop more sustainable products and services.

Who should attend?

This course is especially for managers that need to understand complex life cycle information to make informed decisions. This includes architects and product specifiers, purchasing agents, environmental managers, policy makers, sustainability managers, educators and individuals who hire contractors to perform LCA studies.

Topics

Environmental
Product
Declarations

We cover the fundamentals of LCA, and standardised procedures and an overview of how LCA is undertaken in a practical sense.

Overview of high level frameworks

- ▶ Life Cycle Assessment, Life Cycle Management, Industrial ecology and Circular Economy

Life Cycle
Assessment

Life Cycle Toolkit

- ▶ Eco-design guides
- ▶ Certified materials and products
- ▶ Streamlined Life Cycle tools
- ▶ Life Cycle Assessment

Eco-Design

Life cycle rules of thumb - A distillation of what we have learnt about materials, products and services in the last 50 years including

- ▶ Life cycle archetypes
- ▶ Pros of cons of different materials types
- ▶ Understanding end of life impact and opportunities

Industrial Ecology

From products to systems

- ▶ Input output models
- ▶ Understanding the circular economy

Circular Economy

Managing supply chain risk

- ▶ Social Hot Spot database
- ▶ Hot spot analysis and biodiversity

Environmental
Communication

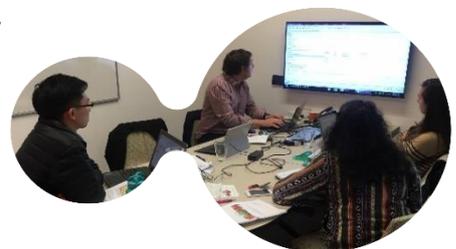
Making decisions

- ▶ Appropriate level of analysis
- ▶ Internal and external use of life cycle data

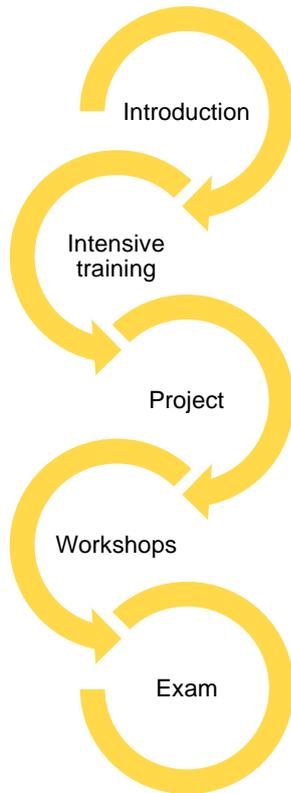
Supply Chain Risk

Making claims and communication

- ▶ ACCC requirements
- ▶ Avoiding greenwashing
- ▶ Labels and certifications, including Environmental Product Declarations



Course structure



This course is an innovative mix of online and face to face training:

Introduction to topic and background material	11 th May 2017
▶ Online session – 3 hours with prior reading	
Intensive training	18-19 th May 2017
▶ Two days of Face to Face training in Melbourne to build skills and set the framework.	
Project	May – July 2017
▶ Each student will undertake a life cycle management project relevant to their organisation- to be defined prior to the intensive training. One of the trainers will be assigned to follow your project, and you will have a teleconference with them prior to each workshop to identify challenges and learnings.	
Implementation	8 June, 29 June, 20 July
▶ Students will come together for 3 x 3 hour workshops spaced three weeks apart following the course.	
Examination	Late July 2017
▶ An exam will be held at the completion of the course for Certification as Life cycle Executive (CLE) with the American Center for Life Cycle Assessment (ACLCA) and the Australian Life Cycle Assessment Society (ALCAS). CLE certification was developed by ACLCA in conformity with the ISO 17024 standard and demonstrates that the individual understands the basics of LCA, and can interpret and communicate LCA results to the general public.	

Expected outcomes

Graduates will be able to:

- ▶ understand the results of an LCA and how to communicate them to different audiences
- ▶ identify material environmental issues and put into place management strategies to improve environmental performance
- ▶ apply systems thinking to their business create value whilst tackling environmental impacts (circular economy – industrial ecology)
- ▶ use streamlined LCA tools effectively themselves, or manage a full LCA project (including development of Environmental Product Declarations)

Price

\$5,000 (excluding GST), including certification as life cycle executive with ALCAS.

Maximum participants 10.

About the trainers



Tim Grant, LCA Expert

Tim has worked for 16 years in Life Cycle Assessment from a background in mineral process engineering and then waste management consulting. He is the founding and current president of the Australian Life Cycle Assessment Society (ALCAS) and is a pillar of the international Life Cycle community internationally 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.

He is a co-author of the book Life Cycle Assessment: Practices Principles and Prospects (CSIRO, 2009) and previously contributed to Design + Environment: A Global Guide to Designing Greener Goods (Greenleaf, 2001).

Tim works across many different sectors in LCA including agriculture, energy, fuels, water products, buildings and waste management. In addition, he has worked on the development of LCA databases for Australia. He is also a member of the international editorial board and the Australian geographical editor for theecoinvent LCA database.



Jodie Bricout, Senior Sustainability Specialist

Jodie has 15 years' experience in corporate sustainability, life cycle thinking and the circular economy in Europe and Australia. She recently returned to Australia after 12 years in France, where she was responsible for developing and co-ordinating the circular economy strategy for the Northern France region and has developed a collaborative Life Cycle Platform working closely with the manufacturing and recycling sectors.

Jodie is a board member of the UNEP/SETAC Life Cycle Initiative and Forum for Sustainability through Life Cycle Innovation, and a sought after public speaker on sustainability and the circular economy. Since joining lifecycles in 2016 she has led the team to evaluate the potential impacts to transitioning to a circular economy for the Office of Green Industries South Australia.



Paul-Antoine Bontinck, Senior LCA Specialist

Specialising in Life Cycle Assessment, Paul-Antoine has a vast and extensive knowledge of applied environmental science. With over 5 years of experience, coupled with a Masters of Environmental Engineering, Paul-Antoine has worked in many fields within the LCA spectrum including research work for RMIT, Life Cycle Management consultancy for Environmental Resource Management (ERM) in the UK and France, and is currently involved with the Vinyl Council Australia in the management of their product stewardship program. Paul-Antoine also boasts a great understanding of product and corporate carbon footprinting, having been involved in extensive footprinting campaigns in the past.