5-6 October 2020 | 18-19 November 2020 |
Concorde Hotel, Shah Alam

FEE: RM 1,150/pax
(excluding 6%SST)*

LIFE CYCLE ASSESSMENT (ETRC 2)

Evaluate the environmental performance and sustainability of products, systems and services

Life cycle assessment training (ETRC 2) covers the principles and requirements of life cycle assessment (LCA) based on ISO 14044, Environmental management - Life cycle assessment - Requirements and guidelines as an environmental management approach and its applications in identifying environmental hotspots, improving processes for eco-design and communicating environmental attributes via ecolabelling and environmental footprint declaration. LCA is a technique used to evaluate the environmental performance and sustainability of products, systems and services.

Note: Life cycle impact assessment (LCIA) and life cycle interpretation phases of the LCA methodology will not be covered in this training.

PROGRAMME OUTLINE

Day	Main Topic
1	**9:00 AM – 5:00 PM**
	Overview of Enviromental Performance and Sustainability Approaches
	Introduction to LCA Principles (LCA Standards)
	LCA Principles – Goal and Scope
	LCA Principles – Functional Unit and System Boundary
	LCA Principles – Life Cycle Inventory (LCI) Data Collection
	LCA Principles – LCI Analysis
2	**9:00 AM – 5:00 PM**
	LCA Principles – LCI Analysis (continue)
	Introduction to Environmental Impact Categories
	Calculation Tools for LCA: Software and Database
	LCA reporting

TARGET AUDIENCE

This 2 days training is relevant to all:

- industrial sectors;
- public; and
- government entities.

Method is based on ISO 14040 & ISO 14044

WHO SHOULD ATTEND

Managers, engineers, researchers, Brand Managers, Project Managers, Technical Managers, Designers, marketers, key stakeholders in organisations who are involved in the Life Cycle Assessment of products and services, LCA analysts, sustainable engineers, environmental scientists, environmental engineers, plant engineers, decision-makers, policy officials and business managers.

OBJECTIVES

At the end of the training, participants are expected to:

- ✓ Understand LCA concepts and be familiar with relevant tools for quantification purposes.
- ✓ Be able to initiate an LCA project.
- ✓ Be able to appraise LCA results and communicate the LCA information objectively.
- ✓ Be able to understand the LCA applications in various environmental sustainability strategies – environmental performance declaration, ecolabelling, eco-innovation, eco-design, process improvement, etc.

Attendance certificate will be awarded upon completion

*** Discount:**
3 or 4 pax - 5% /
5 pax and above - 10%

Classroom lecture
Participatory discussion
Exercise

Organised by:
SIRIM STS

REGISTRATION ONLINE:
www.sirimsts.my

CLAIMABLE UNDER HRDF SBL SCHEME

SIRIM STS Sdn. Bhd.
Building 2, SIRIM Complex, 1, Persiaran Dato' Menteri
P.O. Box 7035, Section 2, 40700 Shah Alam, Selangor
CONTACT aslina@sirim.my / 03 – 5544 6339

TRAINERS' PROFILE

Ms Putri Razreena Abdul Razak is a Senior Researcher attached to SIRIM Environmental Technology Research Centre (ETRC) for the past 25 years. She has a Bachelor's Degree in Biotechnology from Liverpool John Moores University, United Kingdom (1995) and Masters in Environment (M.Env) from Universiti Putra Malaysia (2009). Her major responsibilities are to undertake, facilitate and manage technical and scientific consultancy, laboratory quality management system and research and development (R & D) in environmental management. Other tasks include the involvement in the National Ecolabelling Programme specifically on the development and establishment of Ecolabelling criteria document for SIRIM Ecolabelling Certification Scheme. She had also implemented several governmental and commercial projects on Life Cycle Assessment (LCA) and Carbon Footprint (CFP).

Her projects include carbon footprint of refined sugar for Central Sugars Refinery Sdn.Bhd (2009); LCA study for the Production of Giant Freshwater Prawn for MNRE (2011-2012); Development of Carbon Footprint (CFP) Labelling for Greenhouse Gas Management (Component-refined sugar) for KeTTHA (2011-2012); ASEAN Training of Trainers Workshop on Life Cycle Assessment & Greenhouse gas profiling under the ASEAN Biofuel Flagship program (2013); EU-SWITCH Asia Project on Environmental Declaration Scheme for Construction and Building Materials (2012-2015);Cradle-To-Gate Greenhouse Gas Emissions (CO2e) of Un-Milled Rice Grains from any Seed Varieties by The Conventional Farming Method for MARDI (2016); Program Kesedaran Perubahan Iklim Dan Pelepasan Karbon Projek MSI, for MOSTI (2016), Capacity Building on Carbon Footprint for Top Glove Corporation (2017); Product Carbon Footprint (CFP) Hands-On Training for MGTC (2017); and CFP Analysis for Lamp Poles in Sri Lanka for Edotco Group Sdn.Bhd (2020).

Ms Wan Mazlina Wan Hussein holds a BSc. In Chemistry from Indiana University-Bloomington, U.S.A in 1994. She is currently the Head of Environmental Management Section, Environmental Technology Research Centre (ETRC), SIRIM Berhad. She has joined SIRIM as a Research Officer in 1995. She has been actively involved in Life Cycle Assessment projects when SIRIM first started to venture into LCA work in 2001. She manages the Life Cycle Inventory database, i.e. the Malaysian Life Cycle Inventory Database (MYLCID), conducts life cycle assessment and carbon foot-printing (CFP) projects, is involved in the development of Type-1 ecolabelling criteria document (for SIRIM's green labelling scheme) and product category rules for CFP (for SIRIM's product CFP scheme).

She has been involved in various national and international collaboration projects relating to LCA as follows:

- 9th Malaysia Plan: National LCA & Ecolabelling Project
- SIRIM-JEMAI (Japan) Project: LCA for Asian Countries & Establishment of LCA Methodology and Application in Malaysia
- EU AsiaProEco II Project on Sustainable Production and Consumption as the Long-term Solution to Reduce Urban Environmental Degradation Developing a Reference Framework for Electrical and Electronic Products
- ASEAN (Biofuel Flagship Program) Training of Trainers Workshop on Life Cycle Assessment & Greenhouse Gas Profiling
- EU Switch Asia Environmental Declaration Scheme for Building and Construction Materials
- SIRIM-ASEAN Project: Harmonising The Life Cycle Assessment Methodology for ASEAN Biofuel-Carbon Footprint

Organised by:

REGISTRATION ONLINE:
www.sirimsts.my

CLAIMABLE UNDER HRDF SBL SCHEME

SIRIM STS Sdn. Bhd.
Building 2, SIRIM Complex, 1, Persiaran Dato' Menteri
P.O. Box 7035, Section 2, 40700 Shah Alam, Selangor
CONTACT aslina@sirim.my / 03 – 5544 6339