



ITU Centres of Excellence Network for Arab Region

**Centre International des Technologies de l'Environnement de Tunis
(CITET)**

Online Training Course on

**"How to carry out the Full Life Cycle Assessment"
14 - 18 June 2021**

TRAINING COURSE OUTLINE

COURSE DESCRIPTION

Title	How to carry out the Full Life Cycle Assessment
Objectives	<ol style="list-style-type: none">1. Understand LCA and its relation with environmental decision support,2. Provide trainees with a full understanding of how to carry out an LCA according to ISO 14040 and ISO 14044 standards,3. Demonstrate how to use appropriate assumptions and approximations where necessary,4. Provide an understanding of how to carry out a full environmental assessment including the full set of environmental loads,5. How to apply LCA concept to an ICT project.
Dates	14 -18 June 2021
Duration	05 Days (3 hours / day), 14:00-17:00 Tunis Time
Registration deadline	7 June 2021
Training fees	120 USD or 360 TND
Course code	21OI26633ARB-A

DESCRIPTION OF THE TRAINING COURSE

Life cycle assessment (LCA) is an environmental management tool, which can be used to evaluate the impact of a product, a system, or an activity on the environment. LCA is the factual analysis of a product's entire life cycle in terms of sustainability. Every part of a product's life cycle – extraction of materials from the environment, the production of the product, the use phase and what happens to the product after it is no longer used – can have an impact on the environment in many ways. With LCA, you can evaluate the environmental impacts of your product or service from the very first to the very last or from cradle to grave.

LEARNING OUTCOMES

This course is designed to give an essential overview of life cycle assessment approach. It will help attendees to interpret and evaluate LCA studies and to understand the strengths and weaknesses of this technical environmental tool. The course provides the attendees with knowledge on the methodology of performing a complete LCA study.

TARGET POPULATION

This course is designed for anyone who has to conduct, understand or implement LCAs or associated policies, such as: HSE Managers and their collaborators, Directors of industrial sites, organizations under supervision of the ministry in charge of the environment, Consultants.

ENTRY REQUIREMENTS

This course has no specific prerequisites.

TUTORS/INSTRUCTORS

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Mr. Nouredine Hajjeji	Phone: +216 24 040 400 Email: hajjaji.nour@gmail.com

TRAINING COURSE CONTENTS

- Background of life cycle assessment (LCA) and its relation with environmental decision support.
- LCA vs other methods.
- Overview of LCA according to ISO 14040 and ISO 14044 standards.
- In-depth presentation of LCA method according to ISO 14040 and ISO 14044 standards.
 - LCA goal & scope definition
 - Inventory analysis of extractions and emissions
 - Impact assessment (LCIA)

- Interpretation
- Presentation of a complete LCA case study.

TRAINING COURSE SCHEDULE (Tunis Time)

Week / Session	Topic	Exercises and interactions
14 June 2021 14h00 to 17h00	<ul style="list-style-type: none"> ● Background of life cycle assessment (LCA) and its relation with environmental decision support ● LCA vs other methods ● Overview of LCA according to ISO 14040 and ISO 14044 standards 	Course materials and practical examples, discussions
15 June 2021 14h00 to 17h00	<ul style="list-style-type: none"> ● In-depth presentation of LCA method according to t ISO 14040 and ISO 14044 standards: <ul style="list-style-type: none"> ○ LCA goal & scope definition 	Course materials and practical examples, exercises, discussions
16 June 2021 14h00 to 17h00	<ul style="list-style-type: none"> ● In-depth presentation of LCA method according to t ISO 14040 and ISO 14044 standards: <ul style="list-style-type: none"> ○ Inventory analysis of extractions and emissions 	Course materials and practical examples, exercises, discussions
17 June 2021 14h00 to 17h00	<ul style="list-style-type: none"> ● In-depth presentation of LCA method according to t ISO 14040 and ISO 14044 standards: <ul style="list-style-type: none"> ○ Impact assessment (LCIA) ○ Interpretation 	Course materials and practical examples, exercises, discussions
18 June 2021 14h00 to 17h00	<ul style="list-style-type: none"> ● Presentation of a complete LCA case study 	Course materials and practical examples, discussions

METHODOLOGY

This training is based on both theory and practice:

- Sessions of lectures illustrated with examples based on real cases;
- Practical exercises based on a full case study including role playing and oral presentations.

Course materials: will be available on the website.
Exercises and case studies will be presented every day during the training.
Academic part is 50% and Practical part is 50%.

EVALUATION AND GRADING

There will be daily short quizzes (10 minutes – 10 questions) at the end of each day to measure the progress of knowledge acquisition.

An online evaluation will be done at the end of the session (MCQ of 30 different questions – 30 Minutes).

IMPORTANT: a passing mark of 60% is required for obtaining a completion certificate.

TRAINING COURSE COORDINATION

Course coordinator: Mr. Jawhar Abdelkrim CITET Tel: +216 71 206 766 Mobile: +216 51 489 942 Fax: +216 71 206 642 Email: financement@citset.nat.tn formation@citset.nat.tn	ITU coordinator: Eng. Mustafa Al Mahdi Programme Officer Arab Regional Office-ITU Tel: +202 3537 1777 Mobile: +20114 117 75 73 Fax : +202 3537 1888 Email: mustafa-ahmed.al-mahdi@itu.int
--	--

REGISTRATION AND PAYMENT

ITU Academy portal account

Registration and payment should be made online at the ITU Academy portal.
To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address:
<https://academy.itu.int/index.php/user/register>

Training course registration

When you have an existing account or created a new account, you can register for the course online at the following link: <https://academy.itu.int/index.php/training-courses/full-catalogue/how-carry-out-full-life-cycle-assessment>

You can also register by finding your desired course in our training catalogue <https://academy.itu.int/index.php/training-courses/full-catalogue>

Payment

1. On-line payment

A training fee of USD 120 per participant is applied for this training. Payment should be made via the online system using the link mentioned above for training registration

at <https://academy.itu.int/index.php/training-courses/full-catalogue/how-carry-out-full-life-cycle-assessment>

2. Payment by bank transfer

Where it is not possible to make payment via the online system, select the option for offline payment to generate an invoice using the same link as above. Download the invoice to make a bank transfer to the ITU bank account shown below. Then send the proof of payment/copy of bank transfer slip and the invoice copy to Hcbmail@itu.int and copy the course coordinator. **All bank transaction fees must be borne by the payer.**

Failure to submit the above documents may result in the applicant not being registered for the training.

3. Group payment

Should you wish to pay for more than one participant using bank transfer and need one invoice for all of them, create an account as **Institutional Contact**. **Institutional Contacts** are users that represent an organization. Any student can request to be an institutional contact or to belong to any existing organization.

To do this, head to your profile page by clicking on the **“My account”** button in the user menu. At the bottom of this page you should see two buttons:

- a. If you want to **become an institutional contact**, click on the **“Apply to be an Institutional Contact”** button. This will redirect you to a small form that will ask for the organization name. After you fill the name of the organization you want to represent, click on **“continue”** and a request will be created. An ITU Academy manager will manually review this request and accept or deny it accordingly.
- b. If you want to **belong to an existing organization**, click on the **“Request to belong to an Institutional Contact”** button. This will redirect you to a small form that will ask you to select the organization you want to join from an organization list. After you select the correct organization, click on **“continue”**, a request will then be created. The Institutional Contact that represents that organization will manually accept or deny your request to join the organization.

ITU BANK ACCOUNT DETAILS:

Name and Address of Bank:	UBS Switzerland AG Case postale 2600 CH 1211 Geneva 2 Switzerland
Beneficiary:	Union International des Telecommunications
Account number:	240-C8108252.2 (USD)
Swift:	UBSWCHZH80A
IBAN	CH54 0024 0240 C810 8252 2
Amount:	120 USD
Payment Reference:	CoE-ARB 26633 – WBS No. P.40592.1.08

4. Other method of payment

If due to national regulations, there are restrictions that do not allow for payment to be made using options 1 & 2 above, you can pay by bank transfer, to the CITET bank account shown below.

Then send the proof of payment / copy of bank transfer slip to the course coordinator financement@citet.nat.tn and copy formation@citet.nat.tn.

CITET BANK ACCOUNT DETAILS:

Name and Address of Bank:	ATB Berge du Lac Immeuble Regency 1081 Tunis Tunisie
Beneficiary:	Tunis International Centre for Environmental Technologies
Account number:	01 902 047 1106000286 96 (TND)
Amount:	TND 360
Payment Reference:	"Payment LCA"