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## LCA and digital certification training

ALL-IN-ONE: EXAMINATION INCLUDED IN PRICE

3 days (21 hours)

### Presentation

Thanks to the Lifecycle Analysis and Digital training course, you'll be able to understand the global lifecycle analysis approach.

This practical course will enable you to frame a project, define a functional unit and system boundaries, and carry out a simplified screening-type LCA.

You'll learn how to assess the environmental impact of a digital service using a simplified screening-type LCA, identify eco-design levers and master the Lifecycle Analysis methodology for a digital service.

Thanks to LCA and Digital, you'll be able to analyze the LCA results of a digital service to identify eco-design avenues, better present LCA results using appropriate vocabulary, and carry out a simplified screening-type LCA.

This training course will help you master the tools and data needed to carry out your LCA studies.

### Objectives

- Understand the global approach to life cycle assessment (LCA)
- Frame a project, define a functional unit, system boundaries, etc.
- Performing a simplified screening-type LCA
- Analyze the LCA results of a digital service to identify eco-design avenues
- Presenting LCA results using appropriate vocabulary

### Target audience

- IT specialist in the IS department
- software and website designer/developer
- CSR Manager
- buyer of intellectual services
- product manager

## Prerequisites

- Ideally, you should have taken one of the 2 following courses
  - Green it State of the art
  - Eco-design of digital services
- A good knowledge of the concepts
  - digital sobriety
  - responsible digital

Note: Ambient IT is not the owner of ACV et numérique, this certification belongs to GreenIT.

## LCA and digital training program

### Introduction to Digital Lifecycle Assessment

- Master the basic concepts
  - Lifecycle
  - Digital service
  - The environmental impact of digital technology
  - Flows and impacts
- Choosing the right tools and data
  - Simplified screening-type LCA
  - Impact factor database (NegaOctet)
- Knowledge of standard methods and the LCA legal framework
- Performing a critical review

### study

- Define study objectives
  - Impact quantification
  - Ecodesign
  - Environmental declarations
  - Environmental display
- Define the scope of the study
  - Functional unit
  - System boundaries and cut-off rules
  - Choice of impact indicators

- Carrying out the study
  - Collect inventory data
  - Select impact factor database
  - Model the digital service
  - Assessing impacts
- Interpreting LCA results

## Day 2

- LCA Workshop
  - Choice of digital service to study
  - Conduct a Life Cycle Assessment of this digital service with the trainer
  - Realization on Word
  - Excel implementation

## Day 3

- LCA Workshop
  - Restitution of the previous day's LCA study
  - Role-playing where the trainer plays the customer
  - Identification of candidates' strengths and weaknesses
- The trainer's advice to the candidate
- Passing the "LCA and digital" certification

## Data Exfiltration

- Extraction of secrets from **Key vaults** by abusing managed identity
- Compressing and masking data
- Use of alternative communication channels
- Extraction of workstation passwords and tokens using Compromised Azure
- Extracting secrets from blob storage
- Extract secrets from deployment history

## Lateral Movement in Azure and Azure AD

- Using Hybrid workers with runbooks to switch from Azure to local machines
- lateral movement from GitHub to Azure tenant
- Carry out attacks against applications using application proxy to execute a lateral movement from the cloud to onprem
- Misuse of hybrid model to perform lateral movements on site to the cloud
- Using Intune to run commands on local machines

## Companies concerned

This course is aimed at both individuals and companies, large or small,

wishing to train its teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives with regard to the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.