

Product Carbon Footprint and Life Cycle Assessment Training



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Overview

The workshop aims to teach the fundamentals of PCF calculations (Product Carbon Footprints) and LCAs (Life Cycle Assessment) according to the ISO Standards 14040, 14044 and 14067. The training course is primarily focusing on companies in the chemical and plastics industry who have little to no experience in these environmental topics and want to understand the basic questions of “why, how and what” in relation to environmental assessments of their products. Furthermore, the workshop covers simple case studies and exercises so the participants can apply their knowledge in the real-world corporate environment after the completion of the training.

The participants learn the following topics:



Why is it important to calculate PCFs and conduct LCAs?



How can PCFs and LCAs become useful for your business?



What is needed to calculate PCFs, including basic knowledge about ISO 14067?



Application of the knowledge in real-world, simplified, case-studies.



UNDERSTAND
THE BUSINESS
VALUES BEHIND
PCFs AND LCAs



UNDERSTAND
THE BASIC
REQUIREMENTS
FOR PCF
CALCULATIONS



APPLY THE BASIC
REQUIREMENTS OF PCF
CALCULATIONS IN A
SIMPLIFIED REAL-WORLD
CASE STUDY

Your benefits
after completing
the workshop



WORKSHOP
CERTIFICATE



OPPORTUNITY TO
CONTEXTUALIZE YOUR
COMPANY-SPECIFIC
SITUATION IN A 1-ON-1
MEETING AND DISCUSS
NEXT STEPS FOR PCF
CALCULATIONS



VALUABLE
PEER-TO-PEER
EXCHANGE



GUIDANCE ON THE NEXT
STEPS TO SUPPORT
YOUR ORGANIZATION IN
PCF CALCULATIONS

Profile of participants

This workshop is relevant for you if you are working in the chemical or plastics industry as a professional who plays an integral role in understanding, implementing, and making decisions related to PCFs and LCAs of your products.

The following areas of activity are considered particularly relevant:

- Sustainability
- Purchasing
- Supply Chain Management
- Research & Development (R&D)
- Innovation

Furthermore, professionals from the following departments can be considered as relevant, if they aim to get a deeper understanding of environmental assessments:

- Marketing
- Information Technology (IT)
- Production
- Sales and Management



Organization



WHAT?

- **Workshop:** 16-hours in-person workshop
- **Contextualization:** 60-minute virtual meeting with consultant / trainer during weeks after the workshop
- **Language:** English (discussion can be in German if desired by all participants).
Slides and Materials will be in English.



WHERE?

Rotonda Business Club
Salierring 32, 50677 Cologne

Get in touch with us now for detailed information on dates and pricing.

Contact us

Workshop content



LEARNING OBJECTIVES

The participants will be enabled to¹

- Understand and internalize the business values behind PCFs and LCA.
- Understand and internalize the basic requirements for LCA PCF calculations according to ISO 14040/14044/14067.
 - Goals and Scope definition
 - Life cycle inventory
 - Life cycle impact assessment – focus on product carbon footprints.
 - Interpretation of results
- Design and perform a simple LCA/PCF study, including and evaluating the validity of specific steps, the quality and reliability.
- Understand and internalize the next steps to implement PCF calculations within your company.

¹This corresponds to: Viere et al (2020). Teaching life cycle assessment in higher education. Available under:
<https://link.springer.com/content/pdf/10.1007/s11367-020-01844-3.pdf>

TIME	DAY 1	DAY 2	DAY 3
Morning	Arrival and get together	LCI & LCIA & Interpretation	Case Study
09 am to 12 pm		<p><i>Recap:</i> What have we done so far</p> <p>Life cycle inventory</p> <ul style="list-style-type: none"> → Data collection → Data needs and quality → Primary data → Supplier data <ul style="list-style-type: none"> - Secondary data - Software tool overview → Excursus: cm.chemicals data 	<p><i>Recap:</i> What have we done so far Theory of mathematical structure of LCA</p> <p>Conducting an industry related LCA case study:</p> <p>Example studies: Recycling, Food, Petrol, Transport, Energy</p> <p>Summary and defining the next steps for contextualization, i.e., 60-minutes virtual meetings after course.</p>
12pm to 1pm	We invite you to finger food, drinks and an exchange about PCFs and LCA – Get together.	Lunch break	Optional lunch (<i>Preregistration needed</i>)
Afternoon	Introduction & Goal and Scope	LCI & LCIA & Interpretation	
01 pm to 05 pm	<p>Introduction – Why and how?</p> <ul style="list-style-type: none"> → Business values, application areas and use-cases → Relevance of trust, transparency, and consistency <p>Goal & Scope definition</p> <ul style="list-style-type: none"> → Goal Definition → Functional/Declared unit → System boundaries → Important nomenclature → Short summary 	<ul style="list-style-type: none"> → Allocation → Waste and recycling outlook → Life cycle impact assessment → Global warming potentials or what the PCF is all about → Interpretation and reporting <ul style="list-style-type: none"> - Interpreting PCF results - Reporting requirements for PCFs (ISO 14067) → Compliance with other Together for Sustainability standards 	Departure
<i>Optional:</i> Visit a typical German brewery in Cologne	We invite you to a local brewery in Cologne. <i>Preregistration needed.</i>		

If you want to learn more about the Product Carbon Footprint and Life Cycle Assessment Training, please get in contact with

Mara Boitz

GLOBAL ACCOUNT
MANAGER

Contact us

Stay updated



in



cm
carbonminds