USEtox® - Global reference model for human toxicity and ecotoxicity characterization

USEtox professional training courses | offered by substitute ApS (https://substitute.dk)

At **substitute ApS**, an SME, we develop methods, data, and tools for assessing and reducing impacts of chemical, material, product and technology life cycles on human health and biodiversity. We offer **training to professionals & students who use USEtox** in LCA & footprinting, chemical substitution, SSbD, and risk screening. Our courses are tailored to your needs to apply and further adapt USEtox.

Ambition

USEtox professional training courses feed into Europe's Zero Pollution ambition and into various United Nations Sustainable Development Goals (SDGs) related to minimizing human and environmental health impacts from hazardous chemicals. USEtox is applied in **various science and policy areas**, including life cycle assessment (LCA) and chemical footprinting, chemical substitution and alternatives assessment (CAA), risk assessment (RA), and high-throughput risk screening (HTS).

USEtox professional training courses are suitable for **professionals, PhD students, researchers and practitioners** in companies and organizations working with toxicity characterization, chemicals management and environmental assessment.

Training objectives

This course aims to provide a practical overview of multimedia fate modelling, human exposure modelling, ecosystem and human effects modelling, and application. Objectives are to:

1. Enhance the understanding related to human toxicity and ecotoxicity impact characterization of chemical substance emissions and of chemicals used in product applications
2. Increase the understanding of the overall assessment workflow of the USEtox model
3. Equip training participants with fundamentals needed to calculate human toxicity and ecotoxicity characterization factors with USEtox

Topics covered in the training course:

1. Differences in assessing toxicity between risk assessment and LCA
2. Principles of the USEtox model
3. Scope of emission and in-product chemical applications in USEtox and parameterizations
4. Calculation of USEtox characterization factors for emission and in-product chemical applications
5. Applicability of USEtox to certain substance groups, receptor groups, and exposure settings

Course structure

Tailored USEtox professional training courses are delivered on-site or online by Prof. Peter Fantke (USEtox Team Director), and are arranged e.g. as **half-day** training, **2-days** training or **1-week** training.

For questions, more information and training course fees, please **contact us**!