

TRAINING COURSE

Toxicology for the Non-Toxicologist

Gain an understanding of the fundamentals of toxicology



Course introduction



This one-day introductory training course presented by expert toxicology trainer Laura Robinson offers a unique opportunity to ground yourself in toxicological terms and concepts – an increasingly valuable knowledge asset to have in working in the global regulatory compliance scene. It covers the principles of toxicology together with toxicological endpoints and an explanation of common terminology (including LD50, NOAEL, LOAEL, etc) and will also look at the currently available testing strategies (including alternative methods) within toxicology.

Exercises will be set throughout the day to enable participants to put their new-found knowledge into practice. Copies of the slides and a course manual are included.

Who should attend

This Toxicology for the Non-Toxicologist Training course is applicable to professionals working in regulatory compliance, classification and labelling (CLP/GHS) as well as authors of safety data sheets (SDS). It is also useful occupational hygienists, healthcare and HSE professionals and anyone interested in toxicology.

The material covered is suitable for those with little to no knowledge of toxicology.

Expert trainers



Laura Robinson

Occupational Toxicologist,
Toxicology Consulting Ltd

Laura is a qualified toxicologist and chemist with over ten years' experience in health, safety and environmental issues, as well as chemical compliance. Laura is an accomplished

toxicology trainer, consultant and author of two published books on toxicology. Her third book 'A practical guide to toxicology and human health risk assessment' (John Wiley & Sons) published late 2018.



08:45 Registration

09:00 Course Commencement

Introduction to toxicology

- What is toxicology and why is it important?
- Risk, hazard and exposure – how these differ
- Dose response and dose-effect relationships & curves
- Internal and external/exposure dose
- NOAEL, LOAEL
- Thresholded and non thresholded effects

Basic toxicological terminology and concepts

- Cells, tissues, organs, organ systems
- Homeostasis
- Adaptation and cell injury
- Cellular responses to injury
- Adverse effects
- Local and systemic effects
- Acute and chronic toxicity

11:00 Refreshment break

11:15 How chemicals cause harm - Local effects

- Irritation and corrosion (skin, eyes, respiratory tract)

How chemicals cause harm -Systemic effects

- Target organ toxicity, reproductive and developmental effects, carcinogenicity, genetic toxicology, Skin and respiratory sensitisers (chemical allergies),

12:15 Lunch

13:15 How chemicals cause harm -Systemic effects (continued)

- Target organ toxicity, reproductive and developmental effects, carcinogenicity, genetic toxicology, Skin and respiratory sensitisers (chemical allergies),

Basic Toxicokinetics

- Absorption, distribution, metabolism and excretion
- How knowledge of toxicokinetics can help in understanding species differences in response to chemical exposure

14:45 Refreshment break

15:00 Assessment of toxicity

- Alternative methods
- Acute toxicity testing
- Repeated dose toxicity testing
- Genetic toxicity studies
- Carcinogenicity studies
- Reproductive and developmental toxicity studies
- Sensitisation studies
- Common design of toxicity studies (control, replicates, etc)
- Limitations of toxicity testing

16:15 Questions

16:30 Close of day



Prices

Full price – £785 (+VAT)

Early-bird price – £685 (+VAT)

CW Subscriber price – £735 (+VAT)

Early-bird CW Subscriber price – £635 (+VAT)

Early-bird discount expires 16 August 2019 -



Three ways to register

<https://events.chemicalwatch.com/76042>

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Payment options

- Invoice payable by bank transfer, credit card or cheque made payable to Chemical Watch
- Online using our secure order form
- Payment must be made before the event starts
- The full price is payable in advance and includes tuition, course materials, refreshments and lunch on each day.

Event timings

Day one

3 October 2019, 09:00 - 16:30