

Module 11, Advanced Toxicology

A deeper dive into the world of toxicology or how chemicals impact humans and why

For dates and venues, please visit: [CHCS Training](#)

This module is an advanced training day in toxicology that follows on from [Module 5](#). At the basic level, we learnt that standard test data can provide us with classification end points. At the advanced level we will also learn the basics of human risk assessment such as how to derive a DNEL/DMEL. An advanced level of understanding in toxicology is required when it comes to understand the toxicological mechanisms leading to different toxicological end points. We also learn about the latest achievements in toxicological testing (in chemico, in vitro and in silico methods).

SDS writers reading data most often deal with data from animal studies, but on occasion data from humans that have been exposed (case studies). What kind of challenges are brought forward in handling data from humans and how is data from animals 'translated' into what is true for humans?

This module is aimed at those with a reasonable technical understanding of toxicology, chemistry and chemical supply classification.

To ensure the most effective training with optimum involvement in participative exercises, there will be a limit of 14 on the number of students. Attendance on this series of modules will ensure that your SDSs meet the increasing expectations of both your customers and the regulators.

What you will learn

This module follows on from [Module 5](#) and builds on basic principles by considering chronic toxicity studies and end points (CMR) in more depth. It will also help those reading data to interpret whenever there is a toxicological concern regarding findings in the literature.

- Hazard versus risk
- Basic derivation of DNEL (derived no-effect level) including allometric scaling
- The challenge of handling numerous data, including data from human exposure
- Adverse outcome pathway (AOP)
- Basic introduction to Q(SAR), computer models
- Where to find the data – about sourcing of data from the literature
- There will be opportunities for delegates to discuss personal experiences and ask questions relating to their own specific range of products

SAMPLE PROGRAMME

9.00	Registration
9.30	Welcome, introductions, safety and welfare
09.40	Morning session
11.00	Break
11:15	Morning session continued
12:30	Lunch
13:30	Afternoon session
14:30	Exercise session – introduction
15:00	Break
15:15	Exercise session continued
16:15	Discussion afternoon exercise. Summing up
16.30	Close



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Legislation

Participants need to bring an electronic copy of the Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures, including Annexes on a laptop or tablet for use during the exercises.

The latest consolidated version of the CLP Regulation can be downloaded from:

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02008R1272-20180301&qid=1530617132797&from=EN>

Module Tutor

This module will be presented by toxicologist Annette Dock. Annette has over twenty-five years' experience in chemical regulation. Annette has worked for central authorities in Sweden (National Food Agency, Swedish Work Environment Authority and Swedish Chemicals Agency) before setting up her own business working as an independent consultant.

Comments From Delegates Attending Previous Courses

"Very engaging and interesting speaker, well explained with good level of detail. Easy to ask questions and a lot of opportunities for discussions to cement understanding."

"Really good training team. Engaging presentation and good use of exercises"

"Complex topics were well explained and make sense"

"Particularly enjoyed the discussions on classifications, the group exercise & meeting experts practicing in field"

Reserving A Place

You can reserve a place at this course, online by visiting [Chemical Hazards Training](#), finding the next occurrence of the course and completing the on-line booking form. Courses are only available to CHCS Members. If you are not an existing member and would like to join, again, the process is simple and you can complete our online Membership Registration form at: [Join Us](#).

Courses are £325 (+VAT). However, we offer a **discounted price** of only £275 (+VAT) which expires 9 weeks before the date of the course. Please see the online event for more details.

Your Attention Is Drawn To These Conditions

Delegates can be substituted at any time, subject to payment of membership fee if applicable. However, once booked, the full fee is payable. As this is a limited space training event refunds can only be made if CHCS is notified in advance, and is able to successfully re-offer the place to another delegate.

CHCS reserves the right to alter or cancel the programme due to circumstances beyond our control. If CHCS cancels, then refunds will be made.