

Module 5, Basic Toxicology

The importance of understanding how chemicals impact human health

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

Toxicology is full of different terms and acronyms such as LD50, LC50, local versus systemic toxicity, STOT etc. But what do they mean and why do we need to understand them?

To enable the chemical industry to take a responsible position in the care of workers and consumers, it is important for those involved to have a basic understanding of the basic principles of human toxicology.

This training is intended for those working within the chemical industry who need an introduction to the potential hazards of materials to humans and of the concepts of regulatory test methods leading to a classification regarding health effects.

Attendance on this series of modules will ensure that your SDSs meet the increasing expectations of both your customers and the regulators. Numbers on the course are restricted to enable an informal atmosphere that encourages discussion and time is made available for shorter group exercises.

Topics covered include:

- What is toxicology? Definition, as well as brief discussion of the different disciplines involved
- Basic terms (and acronyms); LD50, LC50, CMR, STOT
- Animal testing, examples of different studies (sub-acute, acute, sub-chronic, chronic)
- Systemic versus local effects
- Examples of known mechanisms behind toxicological effects
- An introduction to testing and assessment strategies for eye and skin irritation
- Understanding of Section 11 of the SDS

SAMPLE PROGRAMME

Session 1

- Welcome, introduction to the presentation software and the training
- Introduction to toxicology
- Basic terms (acute vs chronic)
- Toxicology testing (in vivo, in vitro)

Session 2

- Skin irritation/corrosion
- Testing in vivo and in vitro
- Eye irritation/serious eye damage
- Extreme pH
- Testing and assessment strategy

Session 3

- Allergy
- Case study
- The immune system
- Testing in vivo and in vitro

Session 4

- Acute toxicity
- Exercises and examples
- STOT SE and STOT RE

Session 5

- CMR
- Testing and examples



www.facebook.com/ChemicalHazards



[www.linkedin.com/company/chemical-hazards-communication-](http://www.linkedin.com/company/chemical-hazards-communication-society)



[society https://twitter.com/ChemicalHazards](https://twitter.com/ChemicalHazards)

Advanced Toxicology – Module 11

Module 5 introduces delegates to the area of toxicology, more in-depth discussion of the requirements for Section 11 of the SDS will take place in [Module 11 – Advanced Toxicology](#). In addition, topics like adverse outcome pathway (AOP) will be introduced. For details of all courses and dates please see www.chcs.org.uk/chemical-hazards-training.

Module Tutor

This module will be presented by toxicologist Annette Dock. Annette has over twenty-five years' experience in chemical regulation and assisting companies with compliance. 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.

UK's Exit Of The EU

The departure of the UK from the EU does not impact either the importance of a basic knowledge in the area of toxicology, the SDS or the legal requirements. The formatting and content of the SDS is set by United Nations GHS and the UK will follow these requirements.

Module Presentation

We will deliver this training using an online system, which we have used successfully for other CHCS events and training. There is no charge to delegates for using the software. The licence cost is borne by CHCS.

The sessions will run live and delegates can interact with the tutor and other delegates using their device microphone. The tutor will use a PowerPoint presentation, just as they would in face-to-face training. We will provide you with copies of the presentation and all other supporting documentation in advance of the training, by email. We will provide you with a document giving more details about using the software plus some tips for getting the best out of the day.

Comments From Past Delegates

"The training was aimed correctly in terms of difficulty. It was enjoyable with plenty of examples."

"The leaders were engaging and kept the presentations easily digestible. Good dynamic. Exercises were challenging in a good way, working in groups gave lots of opportunity to discuss and work way through."

"The information provided was excellent and useful"

"Including the glossary of terms is very helpful!"

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](#).

Our training courses are £275 (+VAT). However, we offer a **discounted price** of only £250 (+VAT) which expires 6 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.