

## 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

- Introduction to toxicology
- Basic terms (acute vs chronic)
- Introduction to toxicology testing

#### Session 2

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

#### Session 3

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

#### Session 4

- Acute toxicity and testing
- Exercises acute toxicity
- STOT SE

#### Session 5

- STOT RE toxicity and testing
- Exercise STOT RE

#### Session 6

- CMR
- Mutagenicity introduction and testing
- Carcinogenicity introduction and testing
- Reproduction toxicity introduction and testing
- Exercise reproduction toxicity



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## 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](http://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.

### Module Deputy

Lennart Dock is a toxicologist and worked at Karolinska institutet before joining the Swedish Chemicals Agency. He has mainly worked with risk assessment, GHS and international training in chemicals management.

### 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

*"Very good presenters, very detailed and at a very good pace."*

*"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."*

*"Well delivered and key points covered"*

*"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 £285 (+VAT). However, we offer a **discounted price** of only £260 (+VAT) which expires 6 weeks before the date of the course. Please see the online event for more details.

### Please note these Conditions

Delegates can be substituted at any time, subject to payment of a 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, including insufficient interest. If CHCS cancels, then refunds will be made. For registrations made within 5 weeks of the course date, we only accept payment by Card.