

Laboratory & Research Chemical Safety and Storage



South African Institute of
Occupational Safety and Health
Verified - 5 CPD Points



Course Outcomes

This short course will enable delegates to:

- Identify & Understand Chemical Hazards
- Understand How & Why Chemicals Affect an Exposed Person
- Interpret Sections 2 & 11 of a Safety Data Sheet
- Complete a Chemical Inventory & Store Chemicals Correctly
- Correctly Pack & Dispose of Hazardous Chemical Waste
- Emergency Response
- Respond to & Clean-up a Complex Chemical Spill



Course Contents

- **Legislation & Hazardous Chemical Communication Systems**
 - a) Chemical Hazardous Agent Regulations
 - b) Globally Harmonised System (GHS)
 - c) GHS Chemical Hazardous Classes & Pictogrammes
- **Chemical Hazards**
 - a) Hazardous forms of chemicals
 - b) Flammables, Corrosives vs Irritants, Toxic Agents
 - c) Chemical Sensitizers
 - d) Nanoparticles
 - e) Ototoxicity
- **Introduction to Toxicology**
 - a) Routes of Exposure to Chemicals
 - b) Basic Toxicokinetics
 - c) Recognizing Exposure Symptoms
 - d) Toxicity
 - e) SDSs
 - f) How to protect myself?
- **Storage of Chemicals**
 - a) Setting Up an Inventory
 - b) Barcode Scanning System
 - c) Stocktaking
 - d) Chemical Container & Vials Labelling
 - e) GHS Storage System
 - f) UCT Chemistry's Storage System based on Flinn Scientific's System
 - g) Storage Tips & Guidelines
 - h) Chemical Storage Exceptions
- **Waste Management**
 - a) Waste Streams & Disposal Methods in South Africa
 - b) Unknowns
 - c) Packing of Chemicals for Disposal
- **Emergency Response**
 - a) Emergency Response
 - b) Chemical Spill Clean-up



Course Dates 2025

UCT, Upper Campus,
Classroom 4H, PD Hahn Bldg.

- 1 – 2 April, (8h30 – 16h30)
- 9 – 10 Sep (8h30 – 16h30)



Bookings

UCT Staff on [SuccessFactors](#)

UCT Students & External
Candidates:

[Online Registration Form](#)



Target Audience

- **Laboratory based:**
 - * post-graduate students
 - * post-doctorate students
 - * assistants
 - * technicians & scientific officers
 - * managers & supervisors
- School Science teachers
- School Science technicians



Costs

- R1250-00 for UCT Attendees
- R2500-00 pp (Ex VAT) for External Attendees



Facilitators

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CEM OHSE Unit



Certificate

UCT Accredited Attendance
Certificate