

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
- Respond to & Clean-up a Chemical Spill



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



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) Corrosives vs Irritants, Flammables, Toxic Agents, Reactants
 - c) Chemical Sensitizers
 - d) Ototoxicity
- Introduction to Toxicology
 - a) Routes of Exposure to Chemicals
 - b) Basic Toxicokinetics Concepts
 - c) Recognizing Exposure Symptoms
 - d) Toxicity
 - e) SDSs
- Storage of Chemicals
 - a) Setting Up an Inventory
 - b) Stocktaking
 - c) Chemical Container & Vials Labelling
 - d) GHS Storage System
 - e) Stanford 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) Chemical Spill Clean-up

Attendees need to Complete:

- In Class Activities
- Summative Quiz



Course Dates 2025

Live Online Course
(MS Teams Platform)

9 – 10 Sep 2025
(8h30 – 16h00)



Bookings

UCT Staff on
[SuccessFactors](#)

UCT Students & External Attendees:
[Online Registration Form](#)



Facilitators

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🌐 CEM OHSE Unit



Certificate

UCT Accredited
Attendance Certificate
upon successful completion
of assessment