

# Fundamentals in Laboratory Health & Safety



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



## Course Outcomes

This short course will enable delegates to:

- Recognise Laboratory and Chemical Hazards
- How to Complete a Risk Assessment to Assess Risks Associated to these Hazards
- Minimise the Risks via the Hierarchy of Controls
- Prepare for Laboratory Emergencies
- Understand the Globally Harmonised System (GHS)
- Understand How to Store Chemicals i.e. the GHS
- Interpret Sections 2 & 11 of a Safety Data Sheet



## Course Contents

- Characteristics of Risk-Based Safety Culture
- Recognizing Hazards
  - Chemical
  - Physical
  - Radiation
  - Biological
- Assessing Risks
- Minimizing Risks via the Hierarchy of Controls
  - ⊖ Elimination
  - ⊖ Substitution
  - ⊖ Engineering: Fume hoods
  - ⊖ Administrative Controls: Housekeeping, Signage
  - ⊖ Laboratory Ergonomics
  - ⊖ Standard Operating Procedures
  - ⊖ PPE
- Preparing for Emergencies
  - Emergency Equipment
- Emergency Response
  - Chemical Spill Clean-up
- Basic Chemical Safety Fundamentals
  - ⊗ GHS
  - ⊗ Chemical Hazards & Segregation
  - ⊗ Storage of Chemicals
- Safety Data Sheets

Need also Complete:

- Practical Activities
- Summative Quiz



## Target Audience

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



## Course Dates 2024

3 – 4 Sep

Classroom 4G, PD Hahn, UCT  
(8h30 – 13h00)

Alternatively, inhouse group training can be arranged / client's requirements.

1 x full day/alternatively,  
2 x 5-hour days.



## Bookings

UCT Staff on SuccessFactors:  
[www.successfactors.uct.ac.za](http://www.successfactors.uct.ac.za)

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



## Costs

- R600-00 for UCT Attendees
  - R1200-00 pp (Ex VAT) for External Attendees
- Alternatively, request a quotation for group training.  
Min 10 persons.



## Facilitators

Monique Muller

✉ [monique.muller@uct.ac.za](mailto:monique.muller@uct.ac.za)

☎ 021 6504549

🌐 [CEM OHSE Unit](#)



## Certificate

UCT Accredited Attendance Certificate