



## Course Title:

# Chemical Hazards in the Work Environment



**Date:** 30<sup>th</sup> March - 30<sup>th</sup> April, 2026

**Mode of Delivery:** Online Distance Learning Program

## Course objectives

This short course is intended to impart participants with the state-of-the-art knowledge and skills on anticipation, recognition, evaluation, prevention and control of the chemical hazards in the work environment.

## Course faculty

The course will be facilitated by experienced faculty from Muhimbili University of Health and Allied Sciences (MUHAS), University of Bergen (UiB) and Addis Ababa University (AAU).

## Course duration

The course will run for 4 weeks equivalent to 20 days.

## Course fees

Each participant will be required to pay Tsh. 400,000/= for Tanzanians and 200 USD for non-Tanzanians







### Course summary

Workers globally are facing a significant health challenge due to exposure to harmful chemicals in the workplace. Each year, over 1 billion workers are exposed to harmful chemicals at work. Following such exposures, many of these workers go on to develop occupational diseases and injuries with non-fatal and fatal consequences. Production and use of chemicals in workplaces around the world is on the rise, meaning that workers are increasingly more at risk of developing adverse health effects due to these hazardous exposures. Additionally, as technology advances, new chemical hazards emerge. It is crucial to recognize that effective interventions can mitigate these hazards and protect workers' health. However, knowledge about such interventions is unfortunately lacking for most employers, employees as well as policy makers. This short course will facilitate the understanding of important concepts, the global burden of diseases related to chemicals, toxicology as well as the different methods of assessing chemical exposure at various workplaces. The course will also highlight different preventive measures at workplaces with chemical challenges, such as coffee industries, mining, textiles, bakeries, agriculture, flower farms, smelters, iron & steel, cement, and battery recycling.

### Who should participate?

This course is intended for professionals responsible for the health of employees and the work environment. The course is mainly designed for participants at a master's level. A good command of English is needed to understand the main aspects of the course. The course is especially targeted to increase the competence in occupational health and will be of interest to anyone who want to understand the relationship between chemical exposures and health, and how this exposure can be prevented. New and experienced health and safety professionals will benefit from a comprehensive review of measurements and control of chemical exposures in the workplace.

Professionals with the following roles and responsibilities are encouraged to attend:

- Environmental health practitioners
- Medical practitioners
- Occupational health and safety officers
- Occupational hygienists
- Occupational health physicians
- Nursing officers
- Employees and workers responsible for health and safety of workers.

### Teaching/facilitation methods and procedures



This course is online located at the E-learning online platform (Moodle). The lectures include case studies photos and videos for commenting and discussion. Quizzes as well as question and answer sessions will be used daily.

### Assessment methods/procedures

The participant will be examined on the general knowledge regarding chemical hazards in the work environment and on their ability to reflect on how to prevent work-related diseases and injuries due to chemical exposures.

The exam will have two steps:

- Answering a quiz with 50 questions
- Writing an essay

### Examination administration

The participant can only do the examination once. The examination is open for only one week i.e., the week after the course has been completed. The examination will take 60 minutes.

### Award

Signed certificates given to the participants at the end of the course

### Mode of application

Online applications forms will be published in the Muhimbili University of Health and Allied Sciences, University of Bergen and University of Addis Ababa websites.

Send your application electronically by filling the provided form [Here](#)

**Deadline for application** is: 15<sup>th</sup> March, 2026

