

MASTER OF SCIENCE IN MEDICINE (EXPOSURE SCIENCE)

(Short Courses 2021)



UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG



WITS School of
Public Health

MASTER OF SCIENCE IN MEDICINE (EXPOSURE SCIENCE) SHORT COURSES FOR 2021

Course Name	Course Code	Cost	Price	Course Date	Application Deadline
Exposure Science I	SPUH0146	Competence	R 6 500	3 - 7 May 2021	29 Mar 2021
Exposure Science I	SPUH0147	Attendance	R 6 000	3 - 7 May 2021	29 Mar 2021
Fundamentals of Risk Assessment	SPUH0151	Competence	R 6 500	2 - 6 Aug 2021	28 Jun 2021
Fundamentals of Risk Assessment	SPUH0150	Attendance	R 6 000	2 - 6 Aug 2021	28 Jun 2021
Exposure Control I	SPUH0149	Competence	R 6 500	6 - 10 Sep 2021	2 Aug 2021
Exposure Control I	SPUH0148	Attendance	R 6 000	6 - 10 Sep 2021	2 Aug 2021

1. EXPOSURE SCIENCE I

This short course introduces fundamentals of exposure science, with emphasis on the similarities of the underlying mechanisms and processes from release at the source to emission at the receptor in environmental, consumer and workplace exposure. This is imperative to broaden the view of the participants and promote a holistic approach of external exposure, the intake or uptake, and potential health outcomes.

THE COURSE COVERS THE FOLLOWING TOPICS:

- Introduction to exposure science and exposure ontology
- Characteristics of workplace, residential, environmental and consumer exposure
- Relationship between outdoor-indoor exposure
- Aggregated and cumulative exposure
- Inhalation models from exposure to dose, and basic kinetics (absorption, distribution, metabolism, excretion)

CERTIFICATE TYPE: COMPETENCE OR ATTENDANCE

APPLICATION DEADLINE: 29 MARCH 2021

Competence: External applicant – R6 500
Wits staff/student – R3 250

Attendance: External applicant – R6 000
Wits staff/student – R3 000

2. FUNDAMENTALS OF RISK ASSESSMENT

The short course aims to introduce participants to risk governance, which includes risk assessment, management and communication. The course introduces the basic principles of risk assessment, and elaborates on regulatory, probabilistic and comparative risk assessment. The strengths and limitations of control banding, in general, are explored, in addition to some specific tools, with practical exercises. Different risk assessment and prioritisation tools are also introduced in this course.

3. EXPOSURE CONTROL I

This short course aims to introduce participants to principles of risk and exposure controls. Different types of controls will be introduced according to the hierarchy of controls with practical examples. Selection or identification of controls through stakeholder engagement, cost-effectiveness analysis and other tools such as multi-criteria decision analysis will also be introduced.

THE COURSE COVERS THE FOLLOWING TOPICS:

- Fundamentals of intervention/ implementation science
- Formative research
- Stakeholder communication
- Cost-benefits/cost effectiveness
- Health economics
- Multi-criteria decision analysis
- Resilience interventions

- Fundamentals of risk assessment
- Regulatory risk assessment & probabilistic risk assessment
- Introduction to comparative risk assessment & alternative assessment
- Life cycle (inventory) and assessment
- Risk assessment/prioritisation tools
- Exposure-induced risk and health status
- Exposure-induced risk and vulnerable groups

CERTIFICATE TYPE: COMPETENCE OR ATTENDANCE

APPLICATION DEADLINE: 28 JUNE 2021

Competence:

External applicants – R6 500
Wits staff/student – R3 250

Attendance:

External applicants – R6 000
Wits staff/student – R3 000

CERTIFICATE TYPE: COMPETENCE OR ATTENDANCE

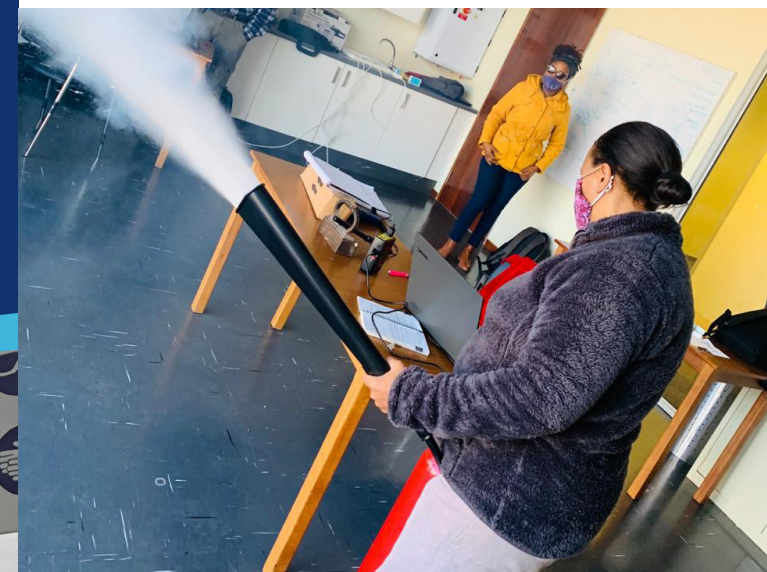
APPLICATION DEADLINE: 2 AUGUST 2021

Competence:

External applicants – R6 500
Wits staff/student – R3 250

Attendance:

External applicants – R6 000
Wits staff/student – R3 000



FOR APPLICATIONS, CONTACT:

Mrs Nomonde Malahlela (Short Course Administrator)
Email: nomonde.malahlela@wits.ac.za
Tel: +27 11 717 2543

School of Public Health Building,
Wits Education Campus
27 St Andrews Road | Parktown 2193
South Africa