



# RISK METHODS SCHOOL

10 – 22 SEPTEMBER 2018

ARDHI UNIVERSITY - DAR ES SALAAM

## Stream Two: Probing Risk and Vulnerability in the Health Sector

### Course II: *Vulnerability and Risk Assessment in the health sector*

**Date:** 17 - 21 September, 2018

The Health Vulnerability and Risk Assessment (HVRA) course aims to acquaint health practitioners, researchers and other actors with the methods of vulnerability and risk assessment in the health sector. It recognises that HVRA is a crucial element for health risk management throughout the disaster cycle (mitigation, preparedness, response and recovery).

It specifically intends to familiarize participants with the concepts and process of the Health Vulnerability and Risk Assessment (HVRA) within the health sector as well as within the global and regional frameworks on DRM, and as this applies to the Bangkok principles for the implementation of the health aspects of the Sendai Framework for Disaster Risk Reduction 2015-2030.

The course, which aims to strengthen participant health vulnerability risk assessment capabilities to improve disaster and emergency management in the health sector, is designed for those who play critical roles in public health emergency management, coordination and research, including the health risks in disasters.

On completion of the course, participants will be able to:

- Apply key terminology and concepts underpinning Vulnerability and Risk Assessment and Mapping.
- Explain components and the process of the vulnerability and risk assessment.
- Design and manage a project for vulnerability and risk assessment.
- Use existing tools to conduct vulnerability and risk assessment.
- Use the results from the vulnerability and risk assessment to formulate operational and policy level recommendations.

### Course content

- Public Health Emergencies and disasters in the African region (PHE)
- Overview of Disaster Risk Management cycle, principles, and Frameworks
- Theoretical Framework of vulnerability and risk assessment
- Health sector Vulnerability and risk assessment framework and tools
  - Vulnerability and risk assessment framework for the health sector
  - Vulnerability and risk assessment tools



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### **Course content (continued...)**

- Vulnerability and risk assessment process
  - Hazard analysis
  - Vulnerability analysis
  - Capacity analysis
- Risk computing
- Risk Mapping
- Risk assessment outputs
- Management of a risk assessment project

### **Entry prerequisites and requirements**

- Minimum of a Bachelors degree in the Health Sciences, Geography, Urban Planning, Disaster (Risk) Management, Development Studies or related field (but preferably evidence of current enrolment in an approved Masters/PhD programme).
- Participants should be fluent in reading and speaking English.
- Relevant experience (especially for health professionals, humanitarian workers, researchers, disaster risk managers, health advisors and practitioners) in development and emergency contexts.
- Computer literacy.

**Note:** The course involves extensive reading and participatory learning methods. Participants will receive pre-reading materials before arriving at the course. The course will be delivered through in-class sessions and an interactive simulation exercise.

### **Equipment implications**

While Ardhi will provide access to GIS computer laboratory facilities, participants are also encouraged to bring their own laptops or other equipment. Please check the Administrator Rights on your equipment, to ensure that settings can be adjusted if necessary.



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### Course presenters

The facilitators for the Health Vulnerability Risk Assessment course are leading international and regional experts with a wide variety of field experiences in disaster risk management and emergency health programming. Facilitators hold a range of expertise, knowledge and backgrounds from the World Health Organization (WHO), academic institutions, NGO's and research centres. These have immense experience and many have trained and practised for many years in complex emergencies.

#### ***Dr Ngoy Nsenga***

Dr Ngoy Nsenga is currently the Team Lead of WHO Emergency Program for East and Southern Africa. He has previously served as Senior Regional Advisor on Emergency Preparedness and Risk Assessment at the Regional office for Africa of the World Health Organization (WHO). Dr Nsenga holds a degree in medicine (MD) and a Master's degree in Public Health (MPH) with more than 25 years of experience in managing public health programs. He is now completing his PhD in Public Health at Walden University, USA. His thesis is exploring a predictive effect of social vulnerability and health system capacity on the incidence of cholera in African countries. His area of research interest is on vulnerability and risk assessment and predictive models for infectious diseases. Dr Nsenga is fluent in French and English.

#### ***Professor Garimoi Chris Orach***

Dr Christopher Garimoi Orach is a Professor of Community Health, departmental chair of Community Health and Behavioural Sciences, and Deputy Dean at Makerere University School of Public Health. He holds a PhD in Public Health from Vrije Universiteit Brussels; Master of Public Health (MPH) from the Institute of Tropical Medicine Antwerp; and Master of Medicine in Public Health (MMed PH), Diploma in Public Health (DPH), and Bachelor of Medicine and Bachelor of Surgery (MBChB) from Makerere University, Kampala. His research interests and publications include public health in complex emergencies, reproductive health, and community risk reduction. Professor Orach is the Coordinator of the Periperi U programme based at Makerere University.



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### Course presenters (continued...)

#### **Prof. Frederick Salukele**

Fredrick Mathew Salukele, PhD, is an Environmental Engineer. He has a strong academic background as well as qualifications and professional experience in the field of Environmental Engineering. Eng. Dr. Salukele is an Employee of Ardhi University (Formerly known as University College of Lands and Architectural Studies – UCLAS) since 2001. He is currently working as a Lecturer in the School of Environmental Science and Technology - Department of Environmental Engineering since 2013. Eng. Dr. Salukele's major fields of specialization are Solid Waste Technology and Management, Wastewater Engineering, Environmental Pollution, Water Supply, Disaster Risk Management and Environmental Impact Assessment. He has carried out numerous consultancies and research in the same fields. Eng. Dr. Salukele is a registered EIA expert with NEMC, registered with Engineers Registration Board (ERB) as a Professional Engineer and a resource person at the Disaster Management Training Centre at Ardhi University. Eng. Dr. Salukele holds a PhD in Environmental Technology from Wageningen University, The Netherlands, and an MSc and BSc. in Environmental Engineering from University of Dar es Salaam.