



## Meet the Instructor



Associate Professor Dr Kenneth Francis Rodrigues is a molecular biologist who is a Researcher at the Biotechnology Research Institute, Universiti Malaysia Sabah. He is a certified trainer in the area of biological risk management and a member of the Malaysian Biosafety and Biosecurity Association (MBBA). During his career, he has conducted training for employees of national agencies involved in public health as well as university lecturers and students. He is a member of the Institutional Biosafety Committee (IBC) which administers the implementation of the biosafety policy at the university.

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## Pre-Register today

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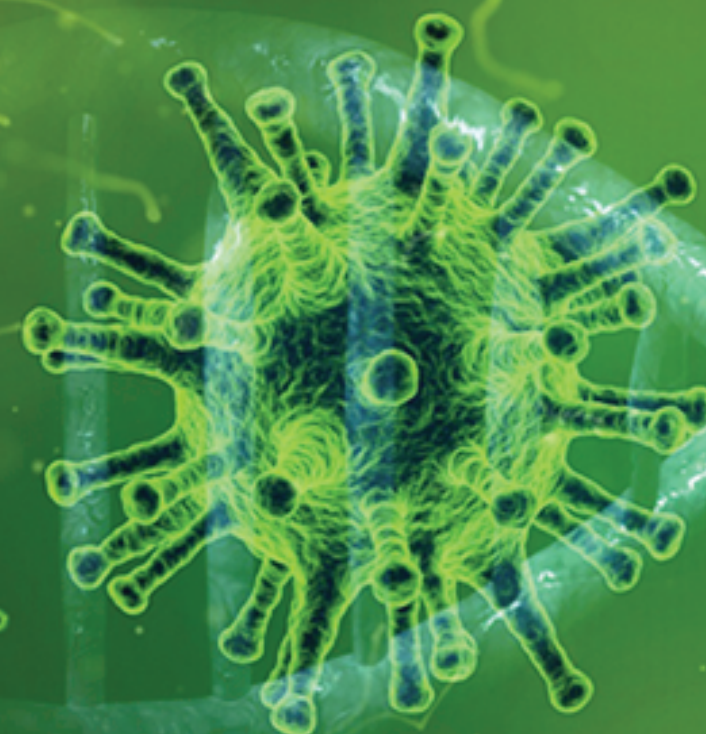
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MOOC

# INTRODUCTION TO BIORISK MANAGEMENT



18th August 2020 - 22nd September 2020



## Course description

Biological agents pose a significant challenge to public health across the world. The emergence of pathogens which have developed resistance to antibiotics and their potential use in bioterrorism has prompted governments to manage the threats posed by these agents by adopting stringent biorisk management practices. This course has been designed and developed to introduce you to diverse biological agents, their classification into risk groups and the practices and procedures recommended by global organizations such as the World Health Organization (WHO) and the National Institutes of Health (NIH). Biological risk management commences with risk assessment, followed by risk mitigation and finally performance assessment. This course will discuss each of these aspects of biorisk management over a duration of five weeks. Participants will engage in a global collaborative online environment to learn and develop competencies for managing biorisk.

## Course Highlights

Participants will:

- Engage with their peers in the area of biorisk management from across the world.
- Develop working relationships with other learners involved in biosafety and biosecurity.
- Receive support from the instructor who has trained others in biorisk management.
- Understand the terminology associated with biorisk management.
- Learn about biological agents and risk groups.
- Learn to conduct a risk assessment.
- Learn to apply pertinent controls to contain the risk posed by biological agents.
- Interact with the participants and instructor via forums.
- Receive a certificate upon completion of the required activities.



## Who Should Participate?

This course is designed for anyone interested to learn about biorisk management. Especially, the course is offered at an introductory level to create awareness about the importance of managing biorisks. People with basic knowledge of life sciences will benefit more from the course. However, the specific target audience of the course are bio-safety staff in hospitals, public and public organisations with large number of staff, and sanitation officials in the municipal/local governments.

This target audience will include:

- Students working with biological agents.
- Researchers engaged in immunology, microbiology and molecular genetics.
- Biosafety officers.
- Laboratory managers.
- Laboratory technicians.
- Occupational Health and Safety managers.



## Course Outline

### Week 1

Participants will understand

- Basic concepts of biorisk management.
- Biological agents.

### Week 2

Participants will investigate and assess

- Hazards and risks.

### Week 3

Participants will learn about the

- Types of controls
- Application of controls

### Week 4

Participants will develop skills on

- Protocols of biosafety officers
- Standard operating procedures for audit of biorisk.

### Week 5

Examination : Case study submission by participants.



## Certification

Two levels of certification are available based on your level of participation and completion of tasks/activities:

**Certificate of Completion:** requires viewing of all the video lectures (100%), participate in all the discussion forums, complete all the weekly quizzes with 80% score and successful complete the case study.

**Certificate of Participation:** requires viewing of all the video lectures (100%), participate in all the discussion forums, complete all the weekly quizzes with 80% score.