Jointly organised by:

DukeNUS Medical School

TED TRAUM INSTITUTE

Designing and Operating a BSL-3 Facility

COURSE OVERVIEW

The course will equip participants with the knowledge and skills to use a Risk-Based approach in designing and operating a BSL-3 facility.

They will learn how to develop operational procedures to manage safety, security and compliance, and put in place a robust safety system for their facility.

DO YOU KNOW?

Using a Risk-Based approach can save a BSL-3 facility tremendous dollars for Operation, Maintenance and Construction. The costs saved can then be translated to continuous improvement yielding productivity for years to come.

This course is designed to empower participants with such knowledge. In this highly interactive course, participants learn via case studies, demonstrations and practical sessions. Trainers are practitioners in their field and will challenge participants with Risk-Based thinking at every stage of design and operations in their BSL-3 facility.

WHO SHOULD ATTEND

- ✔ BSL-3 facility operators
- ✔ Biosafety professionals
- ✔ Researchers who work in BSL-3 facility
- ✔ Regulators and legislators

COURSE DATE

22nd - 25th April 2019

Fee : SGD1,800 (exclude GST)
Tea-Breaks and Lunch provided

Overseas travel grant available, apply by 18th January 2019
https://bit.ly/2ScpjyH

Group Discount:
Contact us for more information

Location : Duke-NUS Medical School
8 College Rd
Singapore 169857

Register at : www.trauminstitute.org

LEARNING OBJECTIVES

Attendees will learn how to apply Risk-Based approach to :

- Identify safety and security risks, and compliance requirements for a BSL-3 facility
- Conduct effective risk assessments
- Designing a BSL-3 facility: From Layout to Engineering
- Decontamination system
- Working safely in a BSL-3 facility
- Emergency preparedness
- Plan maintenance for BSL-3 operations

COURSE OUTLINE

This course combines both theory and practical sessions for attendees. Lecture sessions conducted allow the attendees to grasp the theory components in terms of biosafety requirement for both research and engineering perspective. Attendees would be able to apply the knowledge for practical know-how in case study scenarios, with hands-on approach to prepare for emergency situations in a BSL-3 facility.

TRAINERS

Mr. Theodore Traum
World BioHazTec Corporation

Mr. Dan Yoong
World BioHazTec Pte Ltd

Dr Viji Vijayan
Duke-NUS Medical School

Dr Sumita Anant
Duke-NUS Medical School

Mr. Benson Ng
Duke-NUS Medical School

PROGRAM OVERVIEW

Day 1

Basic Principles of biorisk
Principles of biosafety and biosecurity
Principles of containment
Legislation and compliance
Hazard identification, risk assessment and risk control measures
Group activity on risk assessment and control

Day 2

Manage risk through facility design
Facility location and design and cost consideration
Operations and maintenance considerations
Room Decontamination Technologies
HVAC and airflow design
HEPA Filters
Biosafety cabinets
Certification of a BSL3
Group activity on facility design

Day 3

Facility operations
Developing SOPs
Choice of PPE
Inventory management
Waste management
Emergency management and procedures
Performance Monitoring
Group activity on developing SOPs

Day 4

Visit to BSL3 facility and hands-on practice

Contact Information

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