

# Introduction

***Biorisk Management Training Course***  
**International Biological Threat Reduction Program**  
**National Institutes of Virology**  
**October 2009**

SAND No.

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,  
for the United States Department of Energy's National Nuclear Security Administration  
under contract DE-AC04-94AL85000.



# Course Outline

**Course will include lecture, discussion, and activities**

- **Key Modules include:**

- Introduction to CEN Workshop Agreement
- Implementation of Program Management
- Introduction to the Risk Assessment Process
- Conduct Biosafety Risk Assessments on Case Studies
- Introduction to Design Basis Threat
- Conduct Biosecurity Risk Assessments on Case Studies
- Documentation Management



# Course Objectives

- **Define biorisks and management processes for risk mitigation**
- **Define key roles and responsibilities in managing biorisks**
- **Identify key drivers for implementing management systems**
- **Define risk**
- **Identify key factors needed to assess biosafety and biosecurity risks**
- **Conduct a biosafety and biosecurity risk assessment**
- **Identify key concepts required in drafting safety and security plans**



# **Biosafety and Biosecurity**

***Biorisk Management Training Course***  
**International Biological Threat Reduction Program**  
**National Institutes of Virology**  
**October 2009**

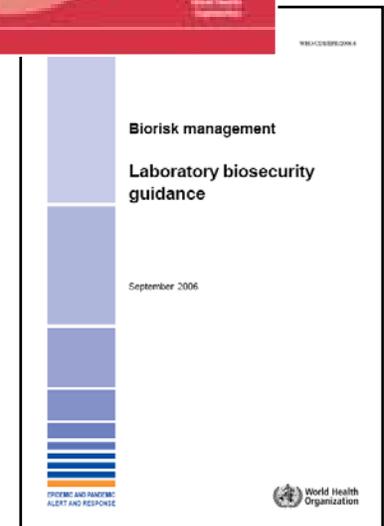
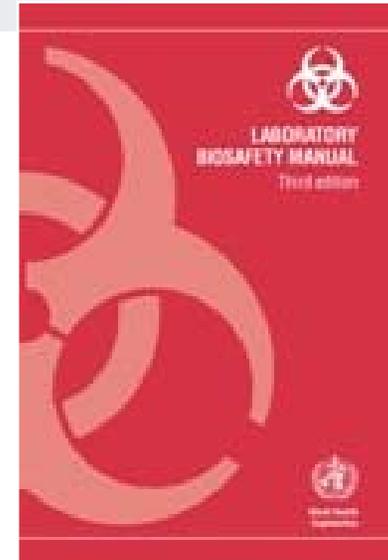
SAND No.

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,  
for the United States Department of Energy's National Nuclear Security Administration  
under contract DE-AC04-94AL85000.



# A Focus on the Laboratory

- **Laboratory Biosafety**
  - A set of preventive measures designed to reduce the risk of accidental exposure to or release of a biological agent
- **Laboratory Biosecurity**
  - A set of preventive measures designed to reduce the risk of intentional removal (theft) and misuse of a biological agent – intent to cause harm
- **Fundamentally, there are risks to working with pathogens and toxins**





## Discussion

- **What are the primary reasons/drivers for implementing biosafety?**
- **What are the primary reasons/drivers for implementing biosecurity?**
- **Whose role is it to determine what mitigation measures are needed?**
- **Whose role is it to determine what type and how much mitigation is needed?**
  - How do you decide what type and how much mitigation is needed?