



## South Central Public Health Partnership

### TRAINING PROFESSIONALS TO PROTECT THE PUBLIC

<http://lms.southcentralpartnership.org/scphp>

### **Applied Epidemiology of Terrorist Events**

**Instructor:** Susan E. Hassig, DrPH

Concepts and terminology used in disease surveillance, screening and outbreak investigations will be briefly reviewed. The course will then address the preparation for and response to 4 broad classifications of terrorist events from an epidemiological perspective. This will include the application of screening and surveillance strategies, computation of measures of the health impact of such events, and study designs appropriate to the investigation of the short and long term impact of terrorist events. The four types of events that will be addressed are: nuclear, chemical, biological and explosive. The topics covered in this course include:

#### **Learning Objectives**

##### Module 1, Part 1. Surveillance

- Describe the role of surveillance in the recognition and control of terrorism events

##### Module 1, Part 2. Screening

- Describe the role of screening in the control and mitigation of terrorism events

##### Module 1, Part 3. Outbreak Investigations

- Describe the specific challenges of with terrorism-associated outbreak situations

##### Module 2, Part 1. Explosives Scenarios, Short-term effects, Long-term effects

- Define the scope of health impacts in an explosive terrorist event

##### Module 2, Part 2. Nuclear Scenarios, Short-term effects, Long-term effects

- Define the scope of health impacts in a nuclear terrorist event

##### Module 2, Part 3. Chemical Scenarios, Short-term effects, Long term effects

- Define the scope of health impacts in a chemical terrorist event

##### Module 2, Part 4. Biological Scenarios, Short term effects, Long-term effects

- Define the scope of health impacts in a biologic terrorist event

##### Module 3, Part 1. Identification of populations at risk

- Describe epidemiologic methods to determine the population at risk for various terrorist events.

##### Module 3, Part 2. Measurement of direct health effects and Monitoring of long-term health impact

- Describe the epidemiologic approaches used to measure the direct effects of a terrorist event.
- Describe the mechanisms of public health and epidemiology which allow for the monitoring of long-term health impacts of a terrorist event.

#### **Competencies**

- Recognize unusual events that might indicate an emergency and describe appropriate action
- Apply creative problem solving and flexible thinking to unusual challenges within his/her functional responsibilities and evaluate effectiveness of all actions taken

\* *Bioterrorism and Emergency Readiness*

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