



South Central Public Health Partnership
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Bioterrorism Preparedness: Infectious Disease Epidemiology and Public Health Surveillance

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Course Description

This course will introduce participants to basic concepts and terminology of infectious disease epidemiology and public health surveillance. Course topics include: key characteristics of microbial agents and their common modes of transmission; measures of association between disease and exposure; common study designs in observational research; sensitivity and specificity and its application to infectious disease diagnosis; types and sources of data, and uses of infectious disease surveillance systems.

Learning Objectives

- Define epidemiology and its uses
- Describe key characteristics of microbial agents and their common modes of transmission
- Understand measures of association between disease and exposure
- Identify common study designs in observational research
- Define sensitivity and specificity and its application to infectious disease diagnosis
- Describe the types, sources of data, and uses of infectious disease surveillance systems
- Become familiar with existing disease surveillance systems in the country

Preparedness & Response Core Competencies **Public Health Preparedness & Response Core Competency Model*

- 2.1: Manage information related to an emergency.
- 2.5: Manage the recording and/or transcription of data according to protocol.

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