

# National Network of Public Health Training Centers Free Online Training

## Epidemiology 101

The following collection of technology based **Epidemiology 101** courses has been developed to assist the public health workforce in locating distance-accessible training programs under this subject. The trainings included in this collection are a subset of trainings developed by the National Network of Public Health Training Centers. All available trainings can be found on the Network's online training database at [www.asph.org/phtc/search.cfm](http://www.asph.org/phtc/search.cfm). The programs in this Epi 101 collection address basic principles and core concepts of epidemiology. This collection can assist in selecting a single online training, or to identify a series of programs from basic to more advanced. Most training is distance accessible and free of charge. For more detailed information on these programs, follow the links provided.

### Study Types in Epidemiology

Length: 0.5 hour  
Format: Video Lecture

Epidemiologic studies are categorized as either descriptive or analytic. In this module, the main elements of descriptive and analytic epidemiology and their associated study types are described briefly and clearly. In addition to case-control studies, you'll also learn about eight other commonly used study types, including the basics of each type of study and how each is used. **CEU credit provided.**

<http://www.nwcphp.org/training/courses-exercises/index.html>

### E is for Epi (session 1-5)

Length: 0.5 hour  
Format: Video Lecture

This five-part series is for *non*-epidemiologists, with the intention of preparing you to work collaboratively with Epidemiologists and PH Surveillance personnel in your region. This series is designed to introduce you to the history and applications of the public health specialty of Epi. It will also introduce and explain terminology, measures, and resources commonly used by practicing Epidemiologists. **CEU credit provided.**

<http://www.publichealthlearning.com/Public/Catalog/default.aspx>

### What Is Epidemiology in Public Health?

Length: 0.75 hour  
Format: Video Lecture

This narrated, 45-minute module offers an overview of the purposes and uses of epidemiology in public health practice. It introduces concepts that are described more fully in our other online modules on epidemiology, and is a good place to start if you plan to take the whole series. **CEU credit provided.**

<http://www.nwcphp.org/training/courses-exercises/index.html>

### Cause and Effect in Epidemiology

Length: 0.75 hour  
Format: Audio narration and Interactive exercises

Determining the cause of a disease or the positive effect of a health activity is an important part of decision-making in public health. In this module, Dr. Victoria Holt discusses seven guidelines to use in determining whether a specific agent or activity causes a health outcome. She illustrates each guideline with a public health example. **CEU credit provided.**

<http://www.nwcphp.org/training/courses-exercises/index.html>

### Basic Infectious Disease Concepts in Epidemiology

Length: 1 hour  
Format: Video lecture

This narrated, one-hour module introduces the concepts and principles of infectious disease in epidemiology. By the end of this module, you'll be familiar with infectious disease agents and transmission characteristics, epidemiologic methods, and vaccination and other control measures. **CEU credit provided.**

<http://www.nwcphp.org/training/courses-exercises/index.html>

### Shoe-Leather Epidemiology: A Guided Tour

Length: 1 hour  
Format: Video lecture

The fundamentals of epidemiology and outbreak investigation come alive as an actual recent investigation unfolds from the initial identification of the outbreak through to its conclusion. As a result of this program, participants will be able to describe the steps in an outbreak investigation. **CME/CNE/CECH credit provided.**

<http://www.nynj-phtc.org/pages/findtraining.cfm>

### Introduction to Epidemiology

Length: 1 hour  
Format: Video lecture

This online training provides an overview of epidemiology, key terms, and examines the role of epidemiologists in public health practice. It includes some case studies and a discussion of how epidemiological studies are related to public health issues. **CEU credit provided.**

<http://cpheo.sph.umn.edu/cpheo/online/home.html>

### Introduction to Public Health Surveillance

Length: 1.5 hours  
Format: Audio narration, interactive exercises, and scenarios

This module introduces public health surveillance concepts and principles for public health workers who have little or no prior training in epidemiology. You'll learn about surveillance systems in local, state, and national public health practice and how these important systems are used in tracking diseases and other public health threats.

<http://www.nwcphp.org/training/courses-exercises/index.html>

### Epidemiology Methods: Bias

Length: 2 hours  
Format: Video lecture

This training course offered by the Center for Public Health Preparedness at the University of North Carolina (UNC) at Chapel Hill provides an overview of Epidemiology Methods related to Biases. The three components of this course are Confounding Bias, Information Bias and Selection Bias. Each part includes an audio tutorial. A certificate of completion is provided by UNC. **CEU credit provided.**

<http://www.publichealthlearning.com/Public/Catalog/default.aspx>

# National Network of Public Health Training Centers Free Online Training **Epidemiology 101 (continued)**

## Epidemiology Methods

Length: 2 hours  
Format: Video lecture

This course is offered by the Center for Public Health Preparedness at UNC and it provides an overview of their Epidemiology Methods course. The components of this course include Descriptive Epidemiology and Study Design; Reading Epidemiologic Literature: Unit 1; and Reading Epidemiologic Literature: Unit 2. Each part includes an audio tutorial. A certificate of completion is provided by UNC. **CEU credit provided.**

<http://www.publichealthlearning.com/Public/Catalog/default.aspx>

## Basic Epidemiology

Length: 2 hours  
Format: Interactive Flash, exercises, scenarios, and case studies

Intended for PH practitioners with limited knowledge or experience in the field of epidemiology, this course offers an opportunity to learn how an epidemiologist investigates the causes of disease, its distribution, how it spreads, and measures for control and prevention. There are four modules: 1) Important Terms in Epidemiology, 2) Models for Understanding the Infectious Process, 3) Epidemiology in Practice and 4) Surveillance.

<http://www.prepareiowa.com>

## Epidemiology Methods: Studies

Length: 4.5 hours  
Format: Video lecture

This training course is offered by the Center for Public Health Preparedness at the UNC at Chapel Hill provides an overview of Epidemiology Methods related to Studies. The four components of this course are Case Control Studies, Cohort Studies, Cross Sectional Studies, and Intervention Trials. Each part includes an audio tutorial and interactive quizzes. A certificate of completion is provided. **CEU credit provided.**

<http://www.publichealthlearning.com/Public/Catalog/default.aspx>

## Introduction to Epidemiology

Length: 7 hours  
Format: Video Lecture with Power Point slides

The training will introduce key concepts in epidemiology that are needed for public health practice. These concepts include the measures of disease frequency, principles and techniques of surveillance, outbreak investigation, measures of association used in epidemiologic studies, causal reasoning, confounding, bias, and epidemiologic study design.

<http://lms.southcentralpartnership.org/scp hp>

## Basic Epidemiology and Biostatistics for the Practitioner

Length: 8 hours  
Format: Lecture slides and Handouts

A CD with lecture slides, handouts and resources on subject matter that includes: the history and overview of epidemiology; surveillance and investigation principles; data collection and analysis; the pitfalls of epidemiology; and cancer clusters.

<http://www.bu.edu/publichealthworkforce/training/index.html>

## Introduction to Epidemiology: Epi for Everyone

Length:  
Format: CD-Rom

Introduction to Epidemiology: Epi for Everyone is an interactive 5-part CD Rom program that introduces the basic concepts of Epidemiology including surveillance, data analysis, cause and effect and programs and interventions based on data. Personalized certificates of complementation are awarded for each module after an individual assessment.

<http://www.heartlandcenters.slu.edu/products.htm>

### About the Public Health Training Centers

The Health Resources and Services Administration funded Public Health Training Centers (PHTCs) are partnerships between accredited schools of public health, related academic institutions and public health agencies and organizations. The PHTC Network is designed to improve the Nation's public health system by strengthening the technical, scientific, managerial, and leadership competence of current and future public health professionals. Public Health Training Centers assess the learning needs of the public health workforce and provide accessible training in addition to working with organizations to meet other strategic planning, education, and resource needs. Please contact the nearest training center to discuss how we might assist your organization: [www.publichealthtrainingcenters.org](http://www.publichealthtrainingcenters.org).