

**Basic Environmental Health Program
Fall 2011 Overview
Genesee County Fire Training Center Facility
7690 State Street Rd.
Batavia, NY 14020**

The Basic Environmental Health Program (BEHP) is an introductory training program designed to equip entry level environmental health personnel with the basic knowledge, skills and abilities needed to develop competency in their initial and future duties. The BEHP is recognized as the health training course approved by the State Health Department pursuant to Part 11 of the State Sanitary Code for individuals employed in Public Health Sanitarian and Technician titles in New York State. Experienced environmental and public health staff, faculty, and industry experts provide a rich overview of major environmental and public health components and programs conducted in New York, together with instruction on the related specialized science and technology. Designed to prepare staff for additional specialized training and mentored experience, the program is coordinated for the New York State Department of Health through an agreement with the University at Albany School of Public Health. The program, typically presented over a period of 2-3 months, consists of in-class sessions, online webinars and webcasts, online self-paced courses and field exercises conducted with a qualified mentor at the student's home office. There are no registration or tuition fees. To register for this program, visit www.nylearnsph.com.

Students expecting to receive a certificate of completion for the entire program must complete all in-class sessions, webinars, webcasts, online courses and field exercises as outlined in this document. For more information, contact Lindsay Ruland (BEHP Project Coordinator) at 518-402-0330 or lruland@albany.edu.

In-person classes and webinars/webcasts: Attend all in-class sessions and online webinars and webcasts; complete course evaluations and pass corresponding in-class/webinar/webcast exams with a score of 70% or higher. Evaluation and exams are available online thru the NYS Learning Management System (www.nylearnsph.com) – After logging in, click on “My Courses”, on the Current Courses tab a link to the evaluation and exam will be available under the Activities column.

Course Title	Date/Time	Format	Topics/Objectives	Pre-requisites/Notes
Introduction to Public Health in NYS (UASPH-PH 101)	October 5 9 am – 4 pm	1 day; in-class	<ul style="list-style-type: none"> • A brief history of public health including the Great Sanitary Awakening • Overview of modern public health and determinants of health • Definition of public health and introduction to 10 essential services • Organizational structure of Public and Environmental Health at the federal, state and local levels • Legal aspects of public health; exercise to discuss public health vs. personal freedoms • Introduction to ethics; interactive exercises to highlight conflicts public and environmental health professionals may face • Overview of Emergency Preparedness including the ICS 	Completion of on-line course, Orientation to Public Health
Public Health Microbiology (UASPH-PH 103A)	October 28 (1 - 4pm)	webinar	<ul style="list-style-type: none"> • Growth in the laboratory and in the environment (factors which affect growth, biofilm) • Chemical agents and other disinfectants • Examples of microbial pathogens in food or water • Detection methods, their limitations and difficulties • Indicator organisms, their properties and usage 	Completion of on-line course, Microbiology: An Introduction
Communicable Disease Control (UASPH-PH 103B)	October 21 (10 – noon)	webinar	<ul style="list-style-type: none"> • Principles of Epidemiology • Public Health Surveillance and Reporting • Outbreak investigation steps, including a case study 	Completion of online course, Field Epidemiology
Zoonoses (UASPH-PH 103C)	November 1 (1 – 3:30 pm)	webcast	<ul style="list-style-type: none"> • Epidemiology of zoonotic diseases • Category A,B and C Bioterrorism Agents • Rabies and other zoonoses associated with environmental health (e.g., animals in public settings) <p><i>Note: Broadcasted from UAlbany School of Public Health, Room C1)</i></p>	

Vector Disease & Control (UASPH-PH 103D)	November 30 1 – 3:30 pm	<i>webcast</i>	<ul style="list-style-type: none"> • Biology and behavior of insects that affect public health • Control of Arthropods and the diseases they transmit <p><i>Note: Broadcasted from UAlbany School of Public Health, Room 110A)</i></p>	
Indoor Air (UASPH-EH 104A)	November 7 (1 – 3:30 pm)	<i>webinar</i>	<ul style="list-style-type: none"> • Describe the characterization and measurement of indoor environmental quality • Discuss building ventilation systems, and their relationship to indoor air quality • Recognize the soil vapor intrusion exposure pathway, chemicals of concern and investigation strategies and mitigative measures • List possible responses to mold complaints caused by building moisture problems • Identify impacts of oil spills on building occupants and application to the Oil Spill Relocation Network 	
Radiation Health (UASPH-EH 104C)	October 6 (1 – 4 pm)	<i>1/2 day; in-class</i>	<ul style="list-style-type: none"> • Describe the functions of the Bureau of Environmental Radiation Protection. • Describe the properties of ionizing radiation and non-ionizing radiation. • Recognize basic radiological health concepts such as: exposure vs. contamination; use of time/distance/shielding; units of radiation measurement; and background radiation. • Describe the biological effects of exposure to ionizing radiation. • List 10 uses of radioactive materials/radiation equipment • Identify and use basic radiation detection/measurement equipment 	
Contaminated Sites (UASPH-EH 104D)	October 6 (9 – noon)	<i>1/2 day; in-class</i>	<ul style="list-style-type: none"> • Identify the elements of an exposure pathway at a contaminated site • Describe the steps in a site investigation • Perform basic environmental sample collection procedures • Discuss the basic principles of risk communication 	

<p>Concepts of Water Supply Protection (UASPH-EH 109)</p>	<p>October 12 – 13 (9 am – 4 pm)</p>	<p><i>2 days; in-class</i></p>	<ul style="list-style-type: none"> • An overview of the “multiple barriers” concept employed to ensure that drinking water in New York is healthful and reliably available, with an emphasis on the public water supply program. <ul style="list-style-type: none"> • Recognize the Public water supply program mission and the major elements. • Describe the concepts of Hydrology, surface & ground water characteristics and well construction essentials. • List contaminants of public health concern and approaches to limiting them in water supplies. • Identify common water treatment methods (with an emphasis on the practical application of disinfection methods). • Discuss typical causes and responses to water emergency conditions – such as boil water notices. • Explain water quality monitoring schemes and sample collection procedures. • Describe Onsite wastewater treatment system concepts, and realty subdivision regulations. 	<p>Completion of non-community public water supply field exercise</p> <p>It is anticipated that PE continuing education credit will be granted for this course</p>
<p>Confined Space Awareness Training (DOH-CS 100)</p>	<p>Nov 4 (10 – 11 am)</p>	<p><i>webinar</i></p>	<ul style="list-style-type: none"> • Assist workers in recognizing a confined space and hazards in them and to avoid entering a confined space. • Understand atmospheric hazards in confined spaces as well as testing to quantify and qualify these hazards 	

Online Courses: complete the following on-line courses. Links to these online courses are provided thru the NYS Learning Management System (www.nylearnsph.com) – After logging in, click on “My Courses”, on the Current Courses tab click on the “launch the course” button available just below the course name. *Note:* Some of these online courses are prerequisite to in-person courses and should be completed prior to attending the course. The remaining online courses should be completed by the end of the program.

Online Course	Pre-requisites/Notes
<i>Orientation to Public Health (NYNJ-201)</i>	prerequisite to the classroom session of UASPH-PH 101: Introduction to Public Health in NYS
<i>Microbiology: An Introduction (UACPHP-200)</i>	prerequisite to the classroom session of UASPH-PH 103A: Public Health Microbiology
<i>Field Epidemiology (UACPHP-206)</i>	prerequisite to the classroom session of UASPH-PH 103B: Communicable Disease Control
<i>Agency for Toxic Substances and Disease Registry Public Health Assessment Overview I & II (UASPH - EH 104B)</i>	Completion of Public Health Assessment Overview 1: Mission and Community AND Overview 2: Exposure Pathways and Toxicological Evaluation is required for this program.
<i>Exploring Cross-Cultural Communication (NYNJ-042)</i>	
<i>Practicing Cross-Cultural Communication (NYNJ-068 Elective)</i> <i>(Enroll in and complete any <u>one</u> of the four modules listed)</i>	<ul style="list-style-type: none"> • NYNJ-068a: Hepatitis A Outbreak <i>(or)</i> • NYNJ-068b: Bamboo Dragon <i>(or)</i> • NYNJ-068c: Community Health Workers <i>(or)</i> • NYNJ-068d: Flood
<i>Introduction to the Incident Command System (FEMA IS 100.B)*</i>	*On March 5, 1996, Governor George Pataki signed Executive Order No. 26 establishing the National Incident Management System (NIMS) - Incident Command System (ICS) as the State standard command and control system that will be utilized during emergency operations. Since that time, NYS agencies have used ICS in every response or pre-planned event operation and have trained tens of thousands of individuals in the Incident Command System. State response agencies have been advised that the following training requirements will need to be completed by the basic responder.
<i>ICS for Single Resources and Initial Action Incidents (FEMA IS 200.B)*</i>	
<i>National Incident Management System (NIMS), An Introduction (FEMA IS 700.A)*</i>	

Field Exercises*: complete the following field exercises with a qualified mentor at the program participant's home health department. Field exercise guidelines and forms will be available at www.behp-ny.org.

Field Exercises
<i>High risk food service establishment (UASPH-EH 107 FE-1)</i> - Complete prior to attending EH 107 (in-class)
<i>Swimming pool with lifeguard supervision (UASPH- EH 107 FE-2)</i> - Complete prior to attending EH 107 (in-class)
<i>Elective Field Exercise (UASPH-EH 108 FE)</i> - Complete by end of program
<i>Sanitary survey of a noncommunity public water supply (UASPH-EH 109 FE)</i> - Complete prior to attending EH 109 (in-class)

*Please submit completed and signed field exercise forms to:

Lindsay Ruland, MPH
BEHP Coordinator
Center for Public Health Continuing Education
SUNY Albany, School of Public Health
One University Place
Rensselaer, NY 12144
lruland@albany.edu
(ph) 518-408-2334
(fax) 518-402-1137