Health Risk Assessment (HRA):
Resource and Training Guide for Hazard Planning and Mitigation

Version 1

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Center *for*
Threat
Preparedness
West Virginia Department
of Health and Human Resources

Introduction

Purpose

This guide was developed as a supplement to the Health Risk Assessment (HRA) County Reports. It is intended for health preparedness planning and training activities in West Virginia and was developed for use by local health departments and their partners.

Overview

Hyperlinks (underlined in blue) to websites, trainings, reports and other resources are provided throughout this document.
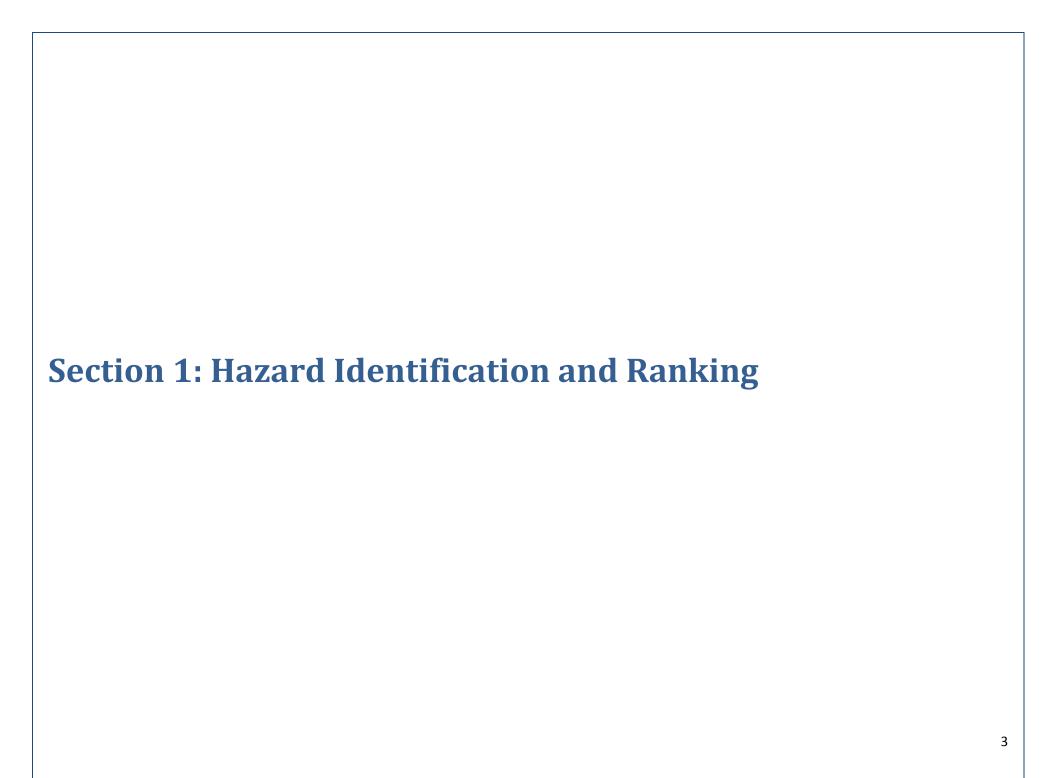
The sections of this guide are as follows:

- **Section 1: Hazard Identification and Ranking –** Includes a list of available resources on hazard probability in West Virginia and the United States and trainings related to specific hazards.
- **Section 2: Hazard Impact –** Includes resources related to specific impacts caused by hazard events with a particular focus on response.
- **Section 3: Agency Mitigation –** Includes resources on the planning process, sector-specific planning guides, the national incident management system, event planning and volunteer management.
- **Section 4: Community Mitigation –** Includes resources on planning for access and functional needs, planning for animals in disasters, donations and volunteer management during incidents, and coalition-building.
- **Section 5: Additional Resources –** Includes websites for sharing and identifying preparedness best practices and state and national training websites.

Limitations: This is the first version of the guide. The Center for Threat Preparedness intends to update the guide annually. This guide is not comprehensive and will rely on subject matter experts at the local and state levels to ensure that the resources included are valuable and accurate. Future iterations of the guide may be formatted according to public health preparedness capability; however, the intent of this initial version is to follow the format of the Health Risk Assessment Report. There is no expectation that all of the trainings or resources included in this guide will be accessed by local health departments; rather, this guide should serve as one of many reference documents for planning, response and recovery.

Please Note: Resources are not comprehensive, endorsed, or evaluated for outcomes. Inclusion in this guide does not constitute an endorsement by the Center for Threat Preparedness or any contributing partners. The inclusion of a hypertext link to an external website is not intended as an endorsement of any product or service offered or referenced by the linked websites, the organizations sponsoring linked websites, or any views that might be expressed or referenced in websites. Please contact the Center with edits and/or additions to the guide at 304-558-6900 or e-mail Rebecca.A.Schmidt@wv.gov.

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Section 1: Hazard Identification and Ranking

Hazard Probability

Website	Description	Hazards
[Spatial Hazard Events and Losses Database for the United States (SHELDUS)](#)	SHELDUS™ is a county-level hazard data set for the U.S. for 18 different natural hazard events types such thunderstorms, hurricanes, floods, wildfires, and tornados. For each event the database includes the beginning date, location (county and state), property losses, crop losses, injuries, and fatalities that affected each county.	**All-hazards – by county** **Fire: Large Conflagration/Wildfire** **Landslide/Debris Flow/Mudslide** **Severe Winter Storm**
[United States Geological Survey](#)	Every year in the United States, natural hazard events threaten lives and livelihoods, resulting in deaths and billions of dollars in damage. The USGS works with many partners to monitor, assess, and conduct targeted research on a wide range of natural hazards so that policymakers and the public have the understanding they need to enhance preparedness, response and resilience. Through its Water Watch site, USGS provides real-time water data and tools to monitor flood, drought and stream-flow.	**Earthquakes** **Landslide/Debris Flow/Mudslide** **Flood** **Drought**
[AIRNOW](#)	The Air Quality Index (AQI) is an index for reporting daily air quality. It tells you how clean or polluted your outdoor air is, and what associated health effects might be a concern for you. The AQI focuses on health affects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health.	**Air Quality**
[World Organization for Animal Health](#)	The OIE is the intergovernmental organization responsible for improving animal health worldwide.	**Agricultural Disease Outbreak**
[Global Terrorism Database](#)	The Global Terrorism Database (GTD) is an open-source database including information on terrorist events around the world from 1970 through 2010 (with additional annual updates planned for the future). For each GTD incident, information is available on the date and location of the incident, the weapons used and nature of the target, the number of casualties, and--when identifiable--the group or individual responsible.	**Agroterrorism** **Biological/Chemical Terrorism** **Cyberterrorism** **Active Shooter**
[US Army Corps of Engineers National Inventory of Dams](#)	The NID consists of dams meeting at least one of the following criteria; 1) High hazard classification - loss of one human life is likely if the dam fails, 2) Significant hazard classification - possible loss of human life and likely significant property or environmental destruction,	**Dam Failure**

	3) Equal or exceed 25 feet in height and exceed 15 acre-feet in storage, 4) Equal or exceed 50 acre-feet storage and exceed 6 feet in height.	
US Drought Portal	The National Integrated Drought Information System (NIDIS) was established in 2006 (NIDIS Act) to help begin to move society from a reactive response to drought to a proactive stance. NIDIS was envisioned to be a dynamic and accessible drought information system that provides users with the ability to determine the potential impacts of drought and the associated risks they bring, and the decision support tools needed to better prepare for and mitigate the effects of drought.	**Drought**
USGS Earthquake Hazards Program	The USGS role is to provide Earth sciences information and products for earthquake loss reduction. The goals of the USGS' Earthquake Hazards Program (EHP) are: to improve earthquake hazard identification and risk assessment methods and their use; To maintain and improve comprehensive earthquake monitoring in the United States with focus on "real-time" systems in urban areas; to improve the understanding of earthquakes occurrence and their effects and consequences.	**Earthquakes**
WV DHHR Bureau for Public Health Office of Epidemiology and Prevention Services	Mission: Manage communicable disease threats through technical assistance, investigations, education and prevention. Site includes outbreak reports and guidance on reportable diseases. Provides surveillance data on infectious diseases including influenza, foodborne disease, rabies, and many others.	**Epidemic/Pandemic** **Local Public Health Emergency** **Foodborne Illness**
National Oceanic and Atmospheric Administration	NOAA's National Climatic Data Center (NCDC) maintains the world's largest climate data archive and provides climatological services and data to every sector of the United States economy and to users worldwide. Records in the archive range from paleoclimatic data to centuries-old journals to data less than an hour old. The Center's mission is to preserve these data and make them available to the public, business, industry, government, and researchers.	**Extreme Temperature Event** **Tornado/Windstorm** **Hurricane/Tropical Storm**
WV Flood Tool	The WV Flood Tool has three customized map views: Public, Expert, and Risk MAP. The Public View allows the general public to obtain quick and easy flood hazard determinations of identified locations, whereas the Expert View and Risk MAP View are for more advanced users who are familiar with FEMA's official flood maps and mitigation programs for flood risk mapping, assessment, and planning (Risk MAP).	**Flood**
CDC Foodborne Disease Outbreak Surveillance	CDC collects reports of foodborne outbreaks due to enteric bacterial, viral, parasitic, and chemical agents. State, local, and territorial public health agencies report these outbreaks to the Foodborne Disease Outbreak Surveillance System through the National Outbreak Reporting System (NORS).	**Food Borne Disease Outbreak**
Pipeline and Hazardous Materials Safety Administration: Incident	The Pipeline and Hazardous Materials Safety Administration, or PHMSA, is a U.S. Department of Transportation agency. PHMSA develops and enforces regulations for the safe, reliable, and environmentally sound operation of the nation's 2.6 million	**HazMat Release** **Mineral Extraction Failure**

Reports Database	mile pipeline transportation system and the nearly 1 million daily shipments of hazardous materials by land, sea, and air.	
Office of Mine Safety and Health Research (OMSHR)	The Data and Statistics pages provide analyzable data files and summary statistics for the U.S. mining industry. The information presented here is generated using employment, accident, and injury data collected by the Mine Safety and Health Administration (MSHA) under CFR 30 Part 50.	**Mineral Extraction Failure**
Mine Safety and Health Administration	The mission of the Mine Safety and Health Administration (MSHA) is to administer the provisions of the Federal Mine Safety and Health Act of 1977 (Mine Act) and to enforce compliance with mandatory safety and health standards as a means to eliminate fatal accidents; to reduce the frequency and severity of nonfatal accidents; to minimize health hazards; and to promote improved safety and health conditions in the Nation's mines. MSHA carries out the mandates of the Mine Act at all mining and mineral processing operations in the United States, regardless of size, number of employees, commodity mined, or method of extraction.	**Mineral Extraction Failure**

Hazard Trainings and Resources

Hazard	Description	Hyperlink
All-hazards	All Hazards Preparation and Response is a course given in-person at the Emergency Management Institute. This Integrated Emergency Management Course, E900 All Hazards Preparedness and Response is a premier course that addresses preparedness and response in emergency situations resulting from natural and technological hazards.	E-900 IEMC: All Hazards Preparedness and Response. To enroll in this course contact the state training coordinator in the WV Division of Homeland Security and Emergency Management.
	Introduction to Public Health Preparedness (Basic Track, Module 1): This training module provides an overview of public health preparedness and describes the basic structure of public health preparedness in WV.	TRAIN Course ID: 1032903
	Public Health Management of Disasters: The Pocket Guide is intended to be a quick field resource to public health interventions in the days immediately preceding and following emergencies. If you need more detailed information, please refer to the Public Health Management of Disasters: The Practice Guide, second edition, by Linda Young Landesman, DrPH, MSW. To order, contact the American Public Health Association at http://www.apha.org or call (202) 777-2742.	APHA Public Health Management of Disasters: Pocket Guide
Active Shooter	IS-907 Active Shooter: What You Can Do: Upon completing this course, the participant will be able to: describe actions to take when confronted with an active shooter and responding law enforcement officials; recognize potential workplace violence indicators; describe actions to take to prevent and prepare for potential active shooter incidents; describe how to manage the consequences of an active shooter incident.	TRAIN Course ID: 1027006
	Department of Homeland Security manual on how to prepare your agency for an active shooter event.	Active Shooter: How to Respond
Air Quality	The Air Supply and Pollution module focuses on understanding components of the atmosphere and the human influence on pollution and, in turn, the effects on human health, as well as strategies for air pollution monitoring and prevention. Upon completion of the module, you will be able to: relate evidence that air quality affects human health, identify pollutants and their sources, discuss the current scope of the air pollution problem in the U.S. and globally, and analyze community strategies for the prevention of air pollution.	TRAIN Course ID: 1010236
	Environmental Protection Agency (EPA): EPA's Air Pollution Training Institute (APTI) provides technical training to state, tribal, and local air	Air Pollution Training Institute

	pollution professionals. Courses are available in classroom and self-instructional formats.	
Agricultural Disease Outbreak	The Center for Food Security and Public Health at Iowa State University, with funding from the Iowa Homeland Security and Emergency Management and collaboration with the Iowa Department of Agriculture and Land Stewardship, has developed a number of educational materials and training tools to help local communities prepare for and response to an animal disease emergency.	Animal Disease Emergencies
	This website houses a database of numerous resources to help citizens of rural agricultural communities prepare for and recover from a number of natural and man-made threats.	All-Hazards Resources for Agricultural Communities
	The National Center for Animal Health Emergency Management (NCAHEM) develops strategies and policies for effective incident management and help coordinate incident responses. As a liaison to outside emergency management groups, they ensure that Veterinary Services (VS) emergency management policies, strategies, and responses are current with national and international standards.	National Center for Animal Health Emergency Management (NCAHEM)
	The Center for Agriculture and Food Security and Preparedness (CAFSP) is located at The University of Tennessee College of Veterinary Medicine in Knoxville, TN. Founded in October of 2006, the Center is dedicated to assisting the nation to protect its critical infrastructure, including agriculture and the food supply. The Center, under the direction of Dr. Sharon Thompson, combines the expertise of University of Tennessee faculty with other institutions across the country to develop and deliver training programs and conduct research related to agroterrorism, biosecurity, foreign animal diseases, and more.	Center for Agriculture and Food Security and Preparedness
Agroterrorism	The *Preparing Communities for Agroterrorism: Awareness Level* online training course provides participants an awareness-level understanding of the threat, impact, and response needs involved in an act of agricultural terrorism. The course provides participants with competency in the following areas: awareness of possible targets of opportunity in their region; development of an infrastructure of community sources; and development of a plan to identify, collect, and share information with state and federal agencies.	Preparing Communities for Agroterrorism
	The Basic Agricultural Emergency Response Training for CBRNE Incidents course is a 32-hour course that provides the responder with an overview of agro terrorism and Chemical, Biological, Radiological, Nuclear, or Explosive (CBRNE) hazards, relative to their potential impact upon	PER-270 - Basic Agriculture Emergency Response Training for CBRNE Incidents To request this course contact Christian

	agricultural resources and the agricultural community. Lectures include response actions, epidemiology, zoonotic diseases, foreign animal diseases, animal restraint and euthanasia, and animal carcass disposal. Hands-on training provides knowledge and skills in selecting and using Personal Protective Equipment (PPE), conducting decontamination, using survey and monitoring equipment, and preserving the crime scene. The course culminates with a scenario-oriented, task-driven, hands-on practical exercise involving a response to a hazardous event in an agricultural setting.	Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
	The Department of Homeland Security, Office of Infrastructure Protection leads the coordinated national program to reduce risks to the Nation's critical infrastructure posed by acts of terrorism, and to strengthen national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency. This website provides an overview of the food and agriculture sector, including protective programs and initiatives and incident management.	Critical Infrastructure Resource Center: Understanding the Food and Agriculture Sector
	The Food Vulnerability Assessment Training Course is intended to prevent and deter terrorist acts targeting the food sectors by teaching communities and industry to assess vulnerabilities and implement mitigation strategies to harden vulnerable targets. This course provides the tools and training to identify critical food assets and to have the knowledge, capability and tools to put measures in place at the local level to reduce those vulnerabilities.	MGT337: Food Vulnerability and Assessment Training Course To request this course contact Christian Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
Biological/Chemical Terrorism	Bioterrorism agents can be separated into three categories, depending on how easily they can be spread and the severity of illness or death they cause. Category A agents are considered the highest risk and Category C agents are those that are considered emerging threats for disease. CDC's website provides training on common biological agents.	CDC Bioterrorism Training and Education
Civil Disturbance/Protest	FEMA: The purpose of this manual is the prevention of injury, suffering, or death that may occur as a result of poor planning or preventable incidents at public events. This manual is intended to provide guidance for the management of risks associated with conducting events that involve mass gatherings of people and assist planners and organizers in making such events safe and successful.	Special Events Contingency Planning (manual)
	Food poisoning at the fair, rabies exposure at the rodeo, crowd trampling at a World Cup game: what is the role of public health at events that attract large crowds? This module will teach you to assess and plan for the prevention and mitigation of public health threats at mass gatherings. It covers topics of	Mass Gatherings: Are You Prepared?

	risk assessment, surveillance, health response, coordination, and communication. This 90-minute module can be completed over several shorter sessions. It also includes a unique practice scenario to further enhance your learning.	
Communications or IT Failure	Emergency communications planning is a key component of any business continuity plan. One important step, as recommended in Network Reliability and Interoperability Council Best Practice 7-7-1011, is to establish alternative means of communication for critical personnel. Toward that end, the FCC is providing these guidelines as a general framework that a variety of public and private entities can use to build their emergency communications plans. Note: scroll down on the webpage to view the information.	Federal Communications Commission: Emergency Information and Planning
	The Department of Homeland Security, Office of Infrastructure Protection leads the coordinated national program to reduce risks to the Nation's critical infrastructure posed by acts of terrorism, and to strengthen national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency. This website provides an overview of the communications sector, including protective programs and initiatives and incident management.	Critical Infrastructure Resource Center: Understanding the Communications Sector
	The Department of Homeland Security, Office of Infrastructure Protection leads the coordinated national program to reduce risks to the Nation's critical infrastructure posed by acts of terrorism, and to strengthen national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency. This website provides an overview of the information technology sector, including protective programs and initiatives and incident management.	Critical Infrastructure Resource Center: Understanding the Information Technology Sector
Cyberterrorism	The course provides individuals, community leaders and first-responders with information on how cyber-attacks can impact, prevent, and/or stop operations and emergency responses in a community. It also serves as a cursory introduction to cyber threats, vulnerabilities and countermeasures. It explains vulnerabilities of computer systems and networks and how these vulnerabilities can affect communities. The course introduces actions communities can take in establishing a cyber-security program.	AWR-136 Essentials of Community Cyber Security To request this course contact Christian Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
	The Cyberterrorism Defense Initiative (CDI) is a national counter-cyberterrorism training program, developed for technical personnel and managers who monitor and protect our nation's critical infrastructures. CDI reaches all levels of public service, including state and local government,	FEMA Cyberterrorism Defense Initiative

	law enforcement, firefighting, public utilities, public safety and health, emergency medical services, and colleges and universities. Classes are free of charge to qualified personnel, and are held in easily accessible and centralized locations throughout the United States.	
	The mission of the National Cyber Security Alliance is to educate and therefore empower a digital society to use the Internet safely and securely at home, work, and school, protecting the technology individuals use, the networks they connect to, and our shared digital assets. This website provides trainings, tips and information on cyber security.	Stay Safe Online
Dam Failure	Dams Sector: Crisis Management is the first course in the Dams Sector Web-based training series. The purpose of this series of courses is to provide owners and operators with information pertaining to security awareness, protective measures, and crisis management. This course explains how crisis management is an important component of an overall risk management program. In addition, it provides guidelines to assist owners and operators in developing Emergency Action, Continuity of Operations, Pandemic Preparedness, and Exercise plans.	TRAIN Course ID: 1019708
	The Department of Homeland Security, Office of Infrastructure Protection leads the coordinated national program to reduce risks to the Nation's critical infrastructure posed by acts of terrorism, and to strengthen national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency. This website provides an overview of the dams sector, including protective programs and initiatives and incident management.	Critical Infrastructure Resource Center: Understanding the Dams Sector
Drought	The Centers for Disease Control and Prevention has created a guide for public health professionals during drought conditions. This publication is intended to assist public health officials, practitioners, and other stakeholders in their efforts first to understand and then to prepare for drought in their communities. It provides information about how drought affects public health, recommends steps to help mitigate the health effects of drought, identifies future needs for research and other drought related activities, and provides a list of helpful resources and tools.	When Every Drop Counts: Protecting Public Health During Drought Conditions—A Guide for Public Health Professionals
	The Environmental Protection Agency has recommendations for how to prepare for and respond to drought conditions.	EPA Severe Drought Recommendations
	The NDMC, established in 1995, is based in the School of Natural Resources at the University of Nebraska-Lincoln. The NDMC's activities include our constantly growing web site; drought monitoring, including participation in the preparation of the **U.S. Drought Monitor** and maintenance of the web	National Drought Mitigation Center

	site; developing the **U.S. Drought Impact Reporter**; a suite of web-based drought management decision-making tools; drought planning and mitigation; drought policy; advising policy makers; collaborative research; K-12 outreach; workshops for federal, state, and foreign governments and international organizations; organizing and conducting seminars, workshops, and conferences; and providing data to and answering questions for the media and the general public. The NDMC is also participating in numerous international projects, including the establishment of regional drought preparedness networks in collaboration with the United Nations' Secretariat for the International Strategy for Disaster Reduction.	
Earthquakes	*Earthquake Preparedness: Lessons Learned from Haiti and California*: The Community Preparedness Webinar series focuses on bringing together government and community leaders to involve citizens in all-hazards preparedness and resilience. The recent 7.0 earthquake that shook Haiti less than 800 miles from Miami, FL, has raised awareness that such an event could occur in America.	TRAIN Course ID 1022597
	FEMA Course ID: E-910 IEMC: Earthquake Preparedness & Response. This 30 minute independent study course presents basic information on earthquake science, risk, and mitigation. It also discusses techniques for structural and non-structural earthquake mitigation. Earthquake Basics is targeted to a wide range of audiences, including homeowners, business owners, the private sector, federal, state, tribal and local government workforce at all levels, first responders, non-profit organizations, volunteers, and community-based organizations. Although certification is not a part of the course, short quizzes are included to enhance interactivity and to boost retention.	TRAIN Course ID 1034551
Epidemic/Pandemic	Influenza: Preparing to Prevent a Pandemic Disaster – Objectives: 1. Understand the Shifting Nature of Influenza 2. Distinguish the Mode and Path of Influenza Spread 3. Understand Human and Animal Surveillance for Avian Influenza (H5N1) 4. Distinguish Containment, Spread, and Superspread of Influenza 5. Understand the Consequences of Influenza: An International Problem and Response 6. Predict some Global Socioeconomic effects of Influenza 7. Describe H5N1 Vaccine Development 8. Describe Public Health Law as it may apply to Pandemic Influenza	TRAIN Course ID: 1006543

	Introduction to Continuity of Operations Planning for Pandemic Influenza, IS-520: At the end of this course, the students should be able to: • Explain the differences between seasonal influenza and pandemic influenza. • Relate the effects of a pandemic influenza to daily organizational operations and basic services. • Describe strategies for resolving continuity challenges presented in a pandemic situation.	[TRAIN Course ID: 1019106](#)
	ABC's of Pandemic Influenza: These learning modules are applicable to all public health, medical, veterinary, pharmacy, emergency management, hospital and other professionals interested in public health preparedness. These modules are created by faculty and guest lecturers at the UNC Gillings School of Global Public Health.	[TRAIN Course ID: 1029725](#)
Extreme Temperature Event	Climate Change: Public Health Preparedness and Response: The goals of this course are to: • Familiarize the learner to the basic concepts of and trends related to climate change and health effects. • Explore the relationship of climate change to a vector-borne disease outbreak through an applied case study simulation	[TRAIN Course ID: 1032741](#)
	CDC has developed a toolkit for extreme heat conditions including fact sheets and materials directed toward people with access and functional needs.	[CDC Extreme Heat Toolkit](#)
	The Extreme Cold Prevention Guide combines all of the key content of the CDC Winter Weather website into one downloadable, printable file. Printing this PDF file ensures that you will have important winter weather health and safety information available even when you're without power or Internet service.	[CDC Extreme Cold Prevention Guide](#)
Fire: Large Conflagration/Wildfire	CDC's Emergency Preparedness and Response website provides information on how to protect yourself and others from fire; public health consequences of fire; and how to recover from a fire.	[CDC Wildfire Information](#)
	Wildfire Guide - A Guide for Public Health Officials, Updated July 2008 This document was written by the California Office of Environmental Health Hazard Assessment, the U.S. Environmental Protection Agency; and the Missoula County Health Department, with input from individuals in several other state and federal agencies, in particular the California Department of Health Services, the California Air Resources Board, and editorial support Washington State Department of Health.	[Wildfire Guide – A Guide for Public Health Officials](#)

Flood	IS-322 Flood Mitigation Basics for Mitigation Staff. Topics covered in this module include: ▪ How floods cause damage ▪ Mitigation measures for personal safety, and structures ▪ Mitigation publications beneficial to local officials, building professionals, and the public	TRAIN Course ID: 1037528
	In 1968, Congress created the National Flood Insurance Program (NFIP) to help provide a means for property owners to financially protect themselves. The NFIP offers flood insurance to homeowners, renters, and business owners if their community participates in the NFIP. Participating communities agree to adopt and enforce ordinances that meet or exceed FEMA requirements to reduce the risk of flooding.	FloodSmart.gov
	Catastrophic Flooding: Environmental Health Risks & Morbidity and Mortality Surveillance -- Objectives ▪ To understand the role of surveillance in assessing the impact of a natural disaster on the environment, and subsequently on human morbidity and mortality. ▪ To understand how to use surveillance data to prepare for and respond to natural disasters. ▪ To understand public misperception of environmental risk issues following a natural disaster and how to redirect attention and energy toward more significant environmental health risk. ▪ To understand the public health and environmental health challenges presented by the need to verify safe re-entry into flooded buildings, and methods used to address those challenges.	TRAIN Course ID: 1029766
Food Borne Disease Outbreak	Food-related diseases affect tens of millions of people and kill thousands. Tracking single cases of foodborne illness and investigating outbreaks are critical public health functions in which CDC is deeply involved. This website provides guidance on foodborne illness and food safety.	CDC Food Safety
	The Food and Drug Administration (FDA) Office of Regulatory Affairs (ORA) offers online training in food and drug law, public health principles, communication skills, food microbiology, HACCP, foodborne illness investigations among others. ORAU online courses are competency-based with mastery quizzes contained within each module.	Office of Regulatory Affairs' (ORA) on-line university
	The West Virginia Bureau for Public Health, Office of Environmental Health Services offers several training programs throughout the year. Trainings planned for 2013 include *A Coordinated Response to Food/Feed*	For information on food safety/sanitation trainings in West Virginia contact Judith.A.Ashcraft@wv.gov

	Emergencies and *ER325 Investigating Foodborne Illness*.	
HazMat Release	IS-340 Hazardous Materials Prevention: The course will consist of nine lessons, excluding the Course Introduction. It will be interactive and conclude with an end of course examination. The Units will address: Why Plan for HazMat Incidents? The Basis for HazMat Planning; Beginning the Planning Process; Identifying Hazards; Analyzing Vulnerabilities; Establishing Response Priorities; Assessing Resources; Developing the HazMat Appendix and a Course Summary.	TRAIN Course ID: 1018470
	PER212 - Operational Level Response to HazMat/WMD Incidents: This course focuses on the unique personal protection challenges that responders face during a WMD or terrorist incident. Upon successful course completion, participants will be able to respond to a WMD/terrorism incident in a defensive mode and preclude the spread of a CBRNE hazard to the public and the environment. Major course topics include: assessing CBRNE hazards, predicting the likely behavior of CBRNE materials, effectively operating and communicating in a unified command structure of ICS, determining detection equipment and personal protection equipment (PPE) needs, performing emergency decontamination, and identifying defensive strategies for a CBRNE incident.	PER 212 – Operational Level Response to HazMat/WMD Incidents To request this course contact Christian Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
	IS-346 An Orientation to Hazardous Materials for Medical Personnel: This course is designed to prepare hospital personnel to analyze hazardous materials situations, take the necessary steps to assure medical provider safety, and identify appropriate resources for decontamination and medical care.	TRAIN Course ID: 1000055
	Introduction to CHEMPACK: This course provides an overview of the national CHEMPACK Program, as well as types of situations during which CHEMPACK assets should be deployed and an overview of many responders duties in an emergency. Module 1 covers the introduction to the CHEMPACK Program. This module is targeted towards: Hospital personnel, first responders, public health professionals and other staff and volunteers who may be involved in a response effort. Learning objectives will help to build skills so that the public health worker can 'contribute expertise to the development of emergency plans' which is competency 3.2 under Plan and Improve Practice.	TRAIN Course ID: 1037608
	CHEMPACK Response Procedures for Nerve Agent Incidents: ▪ Explain what responders should do when they recognize a potential nerve agent incident ▪ Determine when to request deployment of CHEMPACK assets	TRAIN Course ID: 1037631

	▪ Describe notification procedures observed during the response ▪ List steps taken to deploy CHEMPACK assets ▪ Explain required after-action documentation	
Hurricane/Tropical Storm	IS-321 Hurricane Mitigation Basics for Mitigation Staff: Topics covered in this module include: ▪ How hurricanes cause damage ▪ Mitigation measures for personal safety, and structures ▪ Mitigation publications beneficial to local officials, building professionals, and the public	TRAIN Course ID: 1037516
	Overview of Public Health Implications of Hurricanes: ▪ To become familiar with the hazards created by hurricanes ▪ Understand how hazards can impact communities ▪ Discuss public health implications of hazards and impacts including causes and prevention measures	TRAIN Course ID: 1029975
	Public Health Surveillance Activities in the Wake of Hurricanes: ▪ Understand the different types of public health surveillance activities ▪ Describe how and why surveillance used in wake of hurricanes ▪ Explain how information used to guide public health action	TRAIN Course ID: 1030077
Landslide/Debris Flow/Mudslide	IS-632.a Introduction to Debris Operations: ▪ List the eligibility criteria for participation in the Public Assistance Program. ▪ Identify the organizational structure for managing debris removal operations. ▪ Describe the types of debris created by disasters. ▪ Explain strategies for debris removal. ▪ Describe procedures for debris removal. ▪ Discuss the special issues associated with debris removal operations.	TRAIN Course ID: 1028030
	This CDC fact sheet describes what landslides are, what causes them, health threats are associated with landslides, and what you can do to protect yourself and your property. The site also includes links to other resources	CDC Landslide Fact Sheet
Local Public Health Emergency	Environmental Health Role in Disaster Response: This course provides information about the Environmental Health Role in Disaster Response.	TRAIN Course ID: 1009719
	Introduction to Public Health Preparedness in West Virginia ▪ Describe the 3 core functions of public health ▪ List the 10 essential public health services ▪ Define public health preparedness ▪ Describe the role of public health and the health care system in broader	TRAIN Course ID: 1032903

	community preparedness and emergency management ▪ Describe the role of public health preparedness in the public health structure ▪ Describe the basic structure of public health preparedness in WV	
	Public Health Preparedness for Threat Preparedness Staff: Part I (WV) ▪ Explain four types of public health threats ▪ Describe the federal preparedness structure ▪ Describe the Public Health Emergency Preparedness capabilities and how they are to be used, and ▪ Explain federal and state preparedness funding resources	TRAIN Course ID: 1032901
	Public Health Preparedness for Threat Preparedness Staff: Part II (WV) ▪ Describe the structure of public health preparedness in WV ▪ Recall important public health preparedness systems in WV ▪ Identify key preparedness partners ▪ List the WV preparedness focus areas at the state and local level and the responsibilities of each	TRAIN Course ID: 1032902
	Practical Law for Public Health Officials ▪ Recognize legal issues. ▪ Formulate legal questions. ▪ Implement effective strategies for working with legal counsel. ▪ Describe key principles of public health law. ▪ Identify key public health laws that govern leadership's responsibilities, authority, and limitations.	Practical Law for Public Health Officials
Mass Population Surge	Mass Evacuation to Rural Communities: ▪ Recognize potential issues related to spontaneous evacuation to rural areas ▪ Identify actions that can be taken by rural planners to mitigate the impact of a spontaneous evacuation ▪ Utilize a tool to predict community population surge following potential urban disasters.	TRAIN Course ID: 1010245
	Mass Gatherings: Are You Prepared? Food poisoning at the fair, rabies exposure at the rodeo, crowd trampling at a World Cup game: what is the role of public health at events that attract large crowds? This module will teach you to assess and plan for the prevention and mitigation of public health threats at mass gatherings. It covers topics of risk assessment, surveillance, health response, coordination, and communication. This 90-minute module can be completed over several shorter sessions. It also includes a unique practice scenario to further	TRAIN Course ID: 1025099

	enhance your learning.	
Mineral Extraction Failure	The West Virginia Office of Miners' Health Safety & Training is responsible for the supervision of the execution and enforcement of the provisions of the state's mining laws and rules. Prime consideration is given to the protection of the safety and health of persons employed within or at the mines of the state. In addition, the agency protects and preserves mining property and property used in connection with mining activities.	WV Office of Miner's Health Safety and Training
	Provides publications and other resources on mining emergency management and response including An Oral History Analysis of Mine Emergency Response (2012-08) and Underground Coal Mine Disasters 1900-2010: Events, Responses, and a Look to the Future (2012-08).	Emergency Management and Response for Mining Incidents
Power Failure	MGT-345 Disaster Management for Electric Power Systems: ▪ Threats to Electric Power Systems ▪ Vulnerability Assessments ▪ Reducing Risks to Electric Power Systems ▪ Responding to Disasters ▪ Recovery from Disasters ▪ Public Information	MGT-345 Disaster Management for Electric Power Systems To request this course contact Christian Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
	CDC's "What You Need to Know When the Power Goes Out Unexpectedly" discusses how to ensure food and water safety and how to address extreme temperature events in the event of a power failure.	CDC Unexpected Power Failure
Radiological Release	Radiological Terrorism and Radiation Emergencies: Public Health Response: ▪ Identify other agencies responsible for preparing and responding to a radiological emergency event and understand their roles. ▪ Describe the roles and responsibilities of public health in an accidental or intentional radiological emergency event. ▪ Describe the environmental health professional's roles in a radiological emergency event. ▪ List the priority issues that environmental health professionals will be expected to address during response and recovery from a radiological emergency event, with specific emphasis on food and water events. ▪ Identify and locate key reference materials on radiological terrorism agents and nuclear reactor safety. ▪ Demonstrate knowledge of the fundamentals of environmental health response to a radiological emergency event by working through test scenarios, related to food and water.	TRAIN Course ID: 1008841

	Radiation Safety: Bioeffects, Protection and Standards & Radiation Detection: ▪ Recognize and discuss the biological effects of ionizing radiation ▪ Discuss the key elements in protection against ionizing radiation hazards ▪ Select appropriate ionizing radiation detection instrumentation	TRAIN Course ID: 1030312
	Radiation Protection – EPHOC: This course will explain what radiation is, the various types of ionizing radiation including alpha, beta, gamma and neutron radiation. The concept of physical half-life of a radioisotope will be explained and various sources of radiation including background radiation will be discussed. An overview of radiation exposure and contamination of radiation externally and internally will be defined. Radiation safety tenets of time, distance and appropriate or effective shielding will be explained. Types of radiation detectors and personal dosimetry devices / badges / techniques will be explained. A brief overview of radiation biology concerning human health effects to high levels of radiation exposure will be explained and decontamination procedures will be explained as well as proper disposal techniques.	TRAIN Course ID: 1027407
Severe Winter Storm	CDC's webpage on winter storms includes information on the health effects of winter weather, safety tips, and additional resources including public service announcements.	CDC Winter Storm
	FEMA tips for staying safe before, during and after a winter storm.	FEMA Winter Storms
Supply Disruption	Emergency Distribution of Pharmaceuticals: ▪ Describe the role of medications, vaccines, and medical supplies in response to a public health emergency, such as an act of terrorism, a natural disaster, or an influenza pandemic. ▪ List and describe the pharmaceutical resources available for public health crises and describe how these resources could be used within local communities. ▪ Describe the purpose and general process flow of a mass dispensing clinic or a point of distribution (POD). ▪ Explain the roles of public health staff and volunteers in a POD.	TRAIN Course ID: 1021346
	Introduction to Points of Dispensing: This course will familiarize POD workers and public health personnel with the basic purpose, constitution and operations of a Point of Dispensing during a disaster. This course will cover topics such as selecting and designing a site, as well as administration and logistics issues such as supplies, staff roles and training, patient flows, operations and security. Risk communication regarding POD operations will also be discussed in this course. Finally, there will be a short discussion on	TRAIN Course ID: 1013352

	the closing of a POD.	
	IS-319 Tornado Mitigation Basics for Mitigation Staff ▪ How tornados cause damage ▪ Mitigation measures for personal safety, structures, manufactured homes, outbuildings, and landscape. ▪ Mitigation publications beneficial to local officials, building professionals, and the public	TRAIN Course ID: 1037500
Tornado/Windstorm	Case Study: The Great Springfield Tornado This case-study addresses the public health and emergency management response to the three tornadoes that hit Springfield, MA on June 1, 2011 and the impact the emergency had on the community. This case-study focuses on response efforts with specific reflections on the lessons learned during such event. Learning objectives will help to build skills so that the public health worker can 'contribute expertise to the development of emergency plans' which is competency 3.2 under Plan and Improve Practice.	TRAIN Course ID: 1037637
	Tornadoes: Knowing what to do when you see a tornado, or when you hear a tornado warning, can help protect you and your family. During a tornado, people face hazards from extremely high winds and risk being struck by flying and falling objects. After a tornado, the wreckage left behind poses additional injury risks. Although nothing can be done to prevent tornadoes, there are actions you can take for your health and safety. CDC's tornado website provides information on health and safety related to tornadoes.	CDC Tornadoes
	IS-801 Transportation: ▪ Describe the overall purpose and scope of ESF #1. ▪ Identify the supplemental assistance ESF #1 provides to State, tribal, and local governments. ▪ Identify typical actions accomplished by ESF #1 resources and teams. ▪ Describe the types of partnerships formed between ESF #1 and other response agencies and organizations.	TRAIN Course ID: 1018494
Transportation Failure	IS-302 Modular Emergency Radiological Response Transportation Training: This series of modules can serve as a refresher training course for those students already proficient in radiological response. The refresher course should take from 6 to 8 hours to complete. The reliance upon, and use of, radioactive material in agriculture, industry, and medicine continues to increase. As the manufacture, use, and disposal of radioactive material has increased, so has the need to transport it. Consequently, the potential for you as a responder to encounter an incident involving some type of radioactive material has increased. Having	TRAIN Course ID: 1018467

	knowledge of radiological hazards, and the terminology used to describe them, will increase your ability to quickly recognize, safely respond, and accurately relay information during an incident involving radioactive material.	
Water System or Sewer Failure	Provides resources on conducting water system risk assessments and identifying and explaining water sector interdependencies.	Water Environment Federation – Water Security
	Improving the security and resilience of our nation's drinking water and wastewater infrastructures is vital to ensure the provision of clean and safe water to all in the United States. This site provides resources and training materials on water security.	EPA Office of Ground Water and Drinking Water, Water Security Division
	The Department of Homeland Security, Office of Infrastructure Protection leads the coordinated national program to reduce risks to the Nation's critical infrastructure posed by acts of terrorism, and to strengthen national preparedness, timely response, and rapid recovery in the event of an attack, natural disaster, or other emergency. This website provides an overview of the water sector, including protective programs and initiatives and incident management.	DHS Critical Infrastructure Resource Center: Water

Section 2: Hazard Impacts/Mitigation during events

Resources on Hazard Impact and Response to Hazards

Indicator	Definition	Resource Description	Link
Water quality	*The availability of potable drinking water for residents impacted by the hazard event.*	Developed by the Twin Cities Advanced Practice Center, the Environmental Health Emergency Response Guide includes guidance on the role of environmental health workers in disasters.	[Environmental Health Emergency Response Guide](#)
		Water is an essential element to survival and a necessary item in an emergency supplies kit. Following a disaster, clean drinking water may not be available. Your regular water source could be cut-off or compromised through contamination. This site describes how to prepare yourself by building a supply of water that will meet your family's needs during an emergency.	[READY.gov – Emergency Water Supply](#)
		Provides guidance on how to safe storage and use of food and water after a disaster or emergency.	[CDC Keep Food and Water Safe After a Disaster or Emergency](#)
		The West Virginia Bureau for Public Health, Office of Environmental Health provides trainings regularly throughout the year and has links to online training for water operators.	[WV Office of Environmental Health – Water System Trainings](#)
		The West Virginia Rural Water Association offers multiple trainings throughout the year for water operators, wastewater professionals and other interested professionals.	[West Virginia Water Association Training Schedule](#)
Food security	*The availability of a safe and nutritious food supply for residents impacted by the hazard event.*	Developed by the Twin Cities Advanced Practice Center, the Environmental Health Emergency Response Guide includes guidance on the role of environmental health workers in disasters.	[Environmental Health Emergency Response Guide](#)
		Provides guidance on emergency food supplies, food safety and sanitation, cooking and managing food without power.	[READY.gov – Emergency Food Supply](#)
		Provides guidance on how to safe storage and use of food and water after a disaster or emergency.	[CDC Keep Food and Water Safe After a Disaster or Emergency](#)

		The West Virginia Bureau for Public Health, Office of Environmental Health provides sanitarian trainings regularly throughout the year.	WV Office of Environmental Health – Sanitation Training
		Disaster Sanitation: This course provides an introduction to the role of environmental health in emergency response. Relations with key partners and first and second priority actions are discussed. The course covers common issues found with water, wastewater, shelter, vector control, buildings and hazardous materials during a disaster event.	TRAIN Course ID 1027432
Infectious disease	*The number of residents that can be impacted by infectious disease as a result of the hazard event.*	The Bureau for Public Health, Division of Infectious Epidemiology (DIDE) provides trainings several times a year. Topics covered in these trainings range from outbreak investigation to infection control to disease-specific surveillance. There is also an annual, 1.5 day Public Health Symposium in November that focuses on emerging issues in epidemiology and surveillance. For a list of upcoming trainings contact your regional epidemiologist or go to the websites listed.	For a list of upcoming trainings go to: Division of Infectious Disease Epidemiology Website WV TRAIN
		The Disaster Surveillance Workgroup (DSWG) brings together experts from across CDC to set standards for data collection, sharing, and reporting during a public health disaster. Through the work of the DSWG, HSB has developed morbidity and mortality surveillance tools and training materials.	Public Health Surveillance During Disasters
		The Infectious Disease Emergency Response (IDER) Toolkit was developed by the San Francisco Bay Area Advanced Practice Center to assist local health departments in developing and/or supplementing their infectious disease emergency response plans in order to strengthen their ability to prepare for and respond to infectious disease emergencies. Whether a local health department utilizes the entire IDER Toolkit, or simply supplements an existing plan with specific items, the IDER Toolkit contains materials that are useful and appropriate for all types of local health departments.	Infectious Disease Emergency Response Toolkit

		E is for Epidemiology is a five-part training series that introduces non-epidemiologists to the basic concepts of epidemiology. **I is for Investigation** contains seven modules that use case studies to examine the concepts of an outbreak investigation. **P is for Practice** features six case studies developed to allow non-epidemiologists to practice basic epidemiology skills. All of these trainings are available online and can be completed over time.	University of North Carolina: Basic Epidemiology Training Series Epidemiology Module 1TRAIN-WV Course ID: 1029873 Investigation Module 1 TRAIN-WV Course ID: 1030370
Fatalities	*Fatalities that occur as a direct result of the hazard event.*	This mass fatality toolkit, created by the Santa Clara County Advanced Practice Center, includes: ▪ Identification of stakeholders involved in mass fatality management and recommendations for a planning process that is co-led by public health and the medical examiner/coroner's office; ▪ Specific guidelines for all medical examiner/coroner responsibilities at the incident site, morgue, and family assistance center; ▪ Guidance on infection and other health and safety threats; and ▪ Requirements and recommendations for managing mass fatalities during a worst-case scenario pandemic influenza.	Managing Mass Fatalities: A Toolkit for Planning
		This systematic review sought to identify the best available evidence regarding strategies for allocating scarce resources during mass casualty events (MCEs). The report was commissioned by the Agency for Healthcare Research and Quality.	Allocation of Scarce Resources During Mass Casualty Events
		Disaster Triage for Mass Casualty Incidents: The course "Disaster Triage for Mass Casualty Incidents (MCIs)" is designed to give a brief overview of the type of triage used in disasters such as Mass Casualty Incidents, in order to do the greatest good for the greatest number of afflicted. It covers disaster triage tags, as well as primary and secondary triage.	TRAIN Course ID: 1012018
		Mass Fatalities: Public Health Emergency Training Module: This is one of nine awareness-level online modules, developed by the University of Minnesota in	TRAIN Course ID: 1007956

		the UM PHET series that cover critical topics related to emergency preparedness. The Mass Fatalities module defines mass fatalities incidents, describes the operational sites and roles involved in responses to these types of disasters, and identifies key issues related to planning and implementing response efforts.	
Impact on those with chronic disease	*The impact of the hazard on individuals living with chronic disease.*	Article: About 80% of older adults have at least one chronic condition that makes them more vulnerable than healthy people during a disaster. These chronic conditions — combined with the physiological, sensory, and cognitive changes experienced as part of aging — result in frail older adults having special needs during emergencies.	[Disaster Preparedness and the Chronic Disease Needs of Vulnerable Older Adults](#)
		CDC provides limited disaster information on its website for individuals with chronic conditions and disabilities.	[CDC Disaster Information for People With Chronic Conditions and Disabilities](#)
Mass Care	*The ability to provide feeding centers, basic first aid, bulk distribution of needed items, and related services to persons affected by the hazard event.*	The Sphere Handbook: *Humanitarian Charter and Minimum Standards in Humanitarian Response.* The Sphere Handbook is one of the most widely known and internationally recognized sets of common principles and universal minimum standards for the delivery of quality humanitarian response. The minimum standards cover four primary life-saving areas of humanitarian aid: water supply, sanitation and hygiene promotion; food security and nutrition; shelter, settlement and non-food items; and health action.	[The Sphere Handbook: *Humanitarian Charter and Minimum Standards in Humanitarian Response*](#)
		ESF #6: Mass Care, Emergency Assistance, Housing, and Human Services: • Describe the overall purpose and scope of ESF #6. • Identify the types of supplemental assistance ESF #6 provides to individuals and State, tribal, and local governments. • Identify typical activities accomplished by ESF #6 resources and teams. • Describe the types of partnerships formed between ESF #6 and other response agencies and organizations.	[TRAIN Course ID: 1018017](#)

Sheltering	*Temporary housing for people affected by the hazard event including at-risk individuals. Someone whose housing lacks heat in winter qualifies.*	Environmental Health and Shelters: The lectures in this course focus on teaching environmental health specialists how they can apply their knowledge of everyday environmental health problems to dealing with environmental health issues that arise in the creation of mass shelters that may follow a major disaster. By the end of this course, the student should be able to describe key environmental health issues and the roles of environmental health professionals in shelter operations.	TRAIN Course ID: 1009207
		These recommendations provide basic infection control guidance to prevent exposure to or transmission of infectious diseases in temporary community evacuation centers.	CDC Infection Control Guidance for Community Evacuation Centers Following Disasters
		CDC has developed an Environmental Health Shelter Assessment Tool to assist environmental health practitioners in conducting a rapid assessment of shelter conditions during emergencies and disasters. The tool is an assessment form that covers 14 general areas of environmental health, ranging from basic food safety and water quality to pet (companion animal) wellness, and allows for the documentation of immediate needs in shelters.	Environmental Health Shelter Assessment Tool
Family assistance center	*Family assistance typically involves a range of services provided by local, state, and federal agencies as well as nonprofits and private organizations.*	Developed by the Seattle-King County Advanced Practice Center, this toolkit gives you a framework for you and your team to plan and operate a Family Assistance Center (FAC) during a mass-casualty or mass-fatality incident. It is intended to serve as a resource to help you develop a plan for family assistance services that can be applied to all hazards. The goals of this toolkit are to help you: ▪ Understand the context and rationale for operating FACs during mass-casualty or mass-fatality incidents, ▪ Identify the principles that should guide the operations of a FAC and ▪ Develop a plan for a FAC, including strategies for addressing the behavioral health needs of families.	Public Health Family Assistance Center Toolkit

Community resources, linkages, and assistance	*The ability of local residents to know who, where and how to seek assistance after the hazard event.*	Developed by the Seattle-King County Advanced Practice Center, whether you're planning for front desk staff or an entire call center, this toolkit is designed to help you enhance your resources before the next emergency. Because ready or not, the public will call.	[Public Health Call Center Toolkit](#)
At-risk individuals	*Individuals who may have greater difficulty accessing the public health and medical services they require following a disaster or emergency.*	In an effort to better inform the community the Northeast Texas Public Health District has compiled 18 Emergency Preparedness Topics and formatted the information to be friendly to deaf, blind, and limited sight populations. The information is in video and downloadable document format for public use. There is No Charge for use of the materials posted on this website.	[Accessible Emergency Information](#)
		Every community is made up of diverse groups of residents with varied and sometimes complex everyday needs, which can quickly amplify during emergency or disaster events. Developed by the Seattle-King County Advanced Practice Center, this toolkit assists you in planning for at-risk individuals during disasters.	[Public Health Vulnerable Populations Planning Toolkit](#)
		Transportation: Lifeline for People with Disabilities: ▪ Become familiar with terms and acronyms specific to the developmentally disabled population ▪ Gain an understanding of the transportation, care facility, and housing issues associated with developmentally disabled people ▪ Identify the different funding issues associated with developmentally disabled populations	[TRAIN Course ID: 1037669](#)
		Equipment and Resources to Assist Persons with Disabilities During an Emergency: ▪ Discuss adaptive equipment and assistive technology to assist persons with disabilities ▪ Outline resources to assist persons with disabilities in an emergency	[TRAIN Course ID: 1029915](#)
Public health facilities	*The percentage of public health*	Developed by the Seattle-King County Advanced Practice Center, this toolkit is intended for health	[Sustaining Critical Services: Continuity of Operations for Public Health](#)

	facilities and structures which remain operable and open to patients during the hazard event.	departments who have written a continuity of operations or business continuity plan, but have not developed the detailed procedures to implement it, or lack substantial experience putting those plans and procedures into action. The tools are applicable to health departments of any size or scope of services.	
Public health communications	*The percentage of communication systems that are operable during and after the hazard event.*	Developed by the Seattle-King County Advanced Practice Center, this toolkit is intended for health departments who have written a continuity of operations or business continuity plan, but have not developed the detailed procedures to implement it, or lack substantial experience putting those plans and procedures into action. The tools are applicable to health departments of any size or scope of services.	Sustaining Critical Services: Continuity of Operations for Public Health
Public health and medical services	*The percentage of public health and medical services that are operational during an event.*	Developed by the Seattle-King County Advanced Practice Center, this toolkit is intended for health departments who have written a continuity of operations or business continuity plan, but have not developed the detailed procedures to implement it, or lack substantial experience putting those plans and procedures into action. The tools are applicable to health departments of any size or scope of services.	Sustaining Critical Services: Continuity of Operations for Public Health
		The Division of Local Health in the Office of Community Health Systems and Health Promotion provides technical assistance to local health departments on public health services and operations.	WV Division of Local Health
Public health and medical personnel	*The percentage of public health and medical personnel that are available to work during the hazard event.*	Preparing Employees for a Disaster in the Workplace: Employers and business continuity experts are featured in a video segment during this 60-minute module. You'll learn about issues that businesses face when creating disaster plans and how employers work with their employees to prepare for and work through emergency situations.	TRAIN Course ID: 1018847
		The Ready Responder Toolkit is designed to provide emergency response agencies with a series of planning tools to help prepare their personnel and their families for emergencies. These tools are flexible and customizable to be used by planners to meet the needs	Ready Responder: Emergency Planning for First Responders and Their Families

		of their agency or department. This toolkit provides resources on how to develop an organizational preparedness plan; examples of how to promote individual, family, and organizational preparedness; and engage other agencies and departments in these efforts. There are also sample newsletter articles, media pitch templates, and other press materials that can be used to develop and distribute internal and external preparedness messaging.	
		The Workforce Resiliency series provides information about individual and organizational resiliency in the face of stress, emergencies, and disasters. In module 1, *Stressful Effects of Disasters on Workers*, learn how to define stress and the effects that stress has on your behavior, biology, and psychology in both day to day and disaster situations. Module 2, *Individual and Organizational Preparedness*, helps you to distinguish types of coping styles, incorporate strategies to increase organizational preparedness, and maintain your personal resiliency and well being to ensure that you and your organization will be ready to respond in the event of a disaster. The final module in the series, *During and After a Disaster*, details steps that you and your organization can take to maintain and restore resiliency during and after a disaster or emergency.	Workforce Resiliency
Public health and medical surge	*The change in demand for public health and medical services that is directly related to the hazard event.*	Introduction to Disaster Surge for Public Health Nurses: - Describe the role of nursing in disaster, including the specialized role of public health nursing - Identify the 25 Public Health Nursing competencies in disaster surge - Identify the steps in personal preparedness - Differentiate the concepts of public health disaster surge and medical surge	TRAIN Course ID: 1016452
		Response to Disaster Surge for Public Health Nurses: - Identify key elements of disaster epidemiology - Describe the steps of a rapid community assessment	TRAIN Course ID: 1018818

		- Recognize the difference between individual and population based triage - Describe the differences between risk communication and health education - Explain how public health nursing practice in disaster stays focused on the group/aggregate	
		Recovery from Disaster Surge for Public Health Nurses: - State the community psychosocial concerns during recovery from disaster surge - Discuss the components of conducting an ongoing community assessment - Identify mobilization assets and linkages for recovery from disaster surge	TRAIN Course ID: 1018857
		Developed by the Seattle-King County Advanced Practice Center, the objective of Public Health Workforce Activation planning is to develop the capacity to efficiently shift public health staff from day-to-day operations to emergency response roles.	Managing Surge Response and Public Health: Workforce Activation
Time to resume essential public health and medical services	*The amount of time needed after the hazard event to restore essential services.*	Developed by the Seattle-King County Advanced Practice Center, this toolkit is intended for health departments who have written a continuity of operations or business continuity plan, but have not developed the detailed procedures to implement it, or lack substantial experience putting those plans and procedures into action. The tools are applicable to health departments of any size or scope of services.	Sustaining Critical Services: Continuity of Operations for Public Health
Pharmacy and dispensing	*The percentage of pharmacy and dispensing facilities, systems and structures that remains operable and open to patients during the hazard event.*	- Learning Objective 1: At the conclusion of this session, attendees will be able to better understand the mission of the SNS and how it applies to state and local public health. - Learning Objective 2: At the conclusion of this session, attendees will be able to describe innovative SNS response methods as applied at the state and local public health level. - Learning Objective 3: At the conclusion of this session, attendees will be able to describe SNS-specific roles in public health emergency	The Six Most Memorable SNS Lessons You Will Ever Learn in 45 Minutes

		response, especially at the state and local public health levels.	
		Introduction to Points of Dispensing: This course will familiarize POD workers and public health personnel with the basic purpose, constitution and operations of a Point of Dispensing during a disaster. This course will cover topics such as selecting and designing a site, as well as administration and logistics issues such as supplies, staff roles and training, patient flows, operations and security. Risk communication regarding POD operations will also be discussed in this course. Finally, there will be a short discussion on the closing of a POD.	TRAIN Course ID: 1013352
		Emergency Distribution of Pharmaceuticals: ▪ Describe the role of medications, vaccines, and medical supplies in response to a public health emergency, such as an act of terrorism, a natural disaster, or an influenza pandemic. ▪ List and describe the pharmaceutical resources available for public health crises and describe how these resources could be used within local communities. ▪ Describe the purpose and general process flow of a mass dispensing clinic or a point of distribution (POD). ▪ Explain the roles of public health staff and volunteers in a POD.	TRAIN Course ID: 1021346
Emergency transport	*The number of emergency transport requests by residents in the county that are above baseline for the area.*	The West Virginia Office of Emergency Medical Services (EMS) was legislatively mandated in 1975. Its mission is to reduce death and disability by promoting, supporting, and enhancing a comprehensive EMS system, thus improving the quality of life for everyone.	WV Office of EMS
		The EMS Performance Improvement Center is a satellite office housed within the Emergency Medicine Department at the University of North Carolina at	NC EMS Performance Improvement Center

		Chapel Hill. Counties in West Virginia are linked to the EMSPIC seven days a week, twenty-four hours a day, in a variety of cutting-edge IT programs aimed towards comprehensive pre-hospitalization trauma and disaster services, coordination, policy-making, regulation, and research. This Center provides toolkits that allow EMS agencies to analyze their data in a variety of ways.	
		Emergency Medical Services: At the Crossroads (2007) is a report commissioned by the Institute of Medicine to examine the status of and challenges facing EMS agencies nationwide. The chapter on EMS and disasters reviews the array of threats faced by the United States and describes the medical responses to recent disasters both here and abroad.	Chapter 6: Preparing for Disasters
Emotional impact – short-term	*The percentage of people impacted by the hazard event who experience short-term emotional reactions such as fear, anxiety and depression.*	The National Coalition for Mental Health Recovery provides resources on Emotional CPR including a recorded webinar. eCPR is a public health education program which prepares members of the public to assist a person who is experiencing an emotional crisis.	eCPR Training
		Psychological First Aid: 1. Identify the five early-intervention principles to keep in mind as you provide disaster care 2. Define what is PFA and list its basic objectives 3. Describe the eight strategies (Core Actions) of PFA 4. Identify general guidelines for providing PFA 5. Adapt PFA in diverse settings and with different populations 6. Identify ways to monitor and regulate your own stress and maintain your operational effectiveness when providing PFA	TRAIN Course ID: 1022214
		The Substance Abuse and Mental Health Services Administration (SAMHSA) offers tips for talking with students, families, schools and others in the wake of a traumatic event.	SAMHSA Coping with Violence and Traumatic Events
Emotional impact – long-term	*The percentage of people impacted by*	Field Manual for Mental Health and Human Service Workers in Major Disasters – SAMSA.	Link to order this manual

	the hazard event who experience long-term emotional reactions such as fear, anxiety and depression.		
		EM 230: Mental Health Aspects of Emergencies and Disasters for Non-Mental Health Professionals is designed to prepare non-mental health professionals to identify symptoms of mental health distress and refer affected individuals to appropriate behavioral health resources.	TRAIN ID: 1005691 Please note: in order to take this course, you will be redirected to the Yale-New Haven Health Center for Emergency Preparedness and Disaster Response. You will need to register with the center to take the course.
		Dealing with Disaster Related Trauma in Children: ▪ Promotes awareness among public health workers of possible psychological effects (i.e. trauma, PTSD) of disasters on children ▪ Facilitates a basic understanding of known signs and symptoms of trauma and available treatment options	TRAIN Course ID: 1022378

Section 3: Agency Mitigation

Preparedness Planning Resources

Plan	Resource Description	Link
COOP (Continuity of Operations Plan)	FEMA's Continuity of Operations (COOP) Multi-Year Strategy and Program Management Plan Template Guide: Although general guidance and sample information is provided in this guide for reference, organizations are encouraged to tailor their MYSPMP to meet their own needs and requirements.	[Continuity of Operations (COOP) Multi-Year Strategy and Program Management Plan Template Guide](#)
	Continuity of Operations Awareness Course: ▪ Define continuity of operations. ▪ Identify the legal basis for continuity of operations. ▪ Explain the Continuity Program Management Cycle. ▪ Describe the elements of a viable continuity program.	[TRAIN Course ID: 1030692](#)
	Introduction to Continuity of Operations: ▪ Define Continuity of Operations. ▪ Identify the legal basis for Continuity of Operations. ▪ Describe the structure of the continuity planning team. ▪ Explain the continuity program management cycle. ▪ Identify the phases of continuity. ▪ Recognize the steps in the continuity planning model.	[TRAIN Course ID: 1019966](#)
	Continuity of Operations (COOP) Program Manager: ▪ Define continuity of operations. ▪ Explain the benefits of developing a viable continuity program. ▪ Identify the elements of a viable continuity program. ▪ Identify processes, resources, and tasks necessary to implement and manage a successful continuity program.	[TRAIN Course ID: 1018388](#)
	Florida Department of Health: Creating a County Crisis and Emergency Risk Communications (CERC) Annex: Guidance for CHD Planners and PIOs The following information is to help county health departments (CHDs) develop county Crisis and Emergency Risk Communications (CERC) annexes (or plans) to their County Emergency Operations Plans (EOP). CERC is a functional annex which can also be referred to as an Emergency Public Information and Warning Annex (or plan) or Crisis Communications Plan. The following guidance document provides information on the key elements of a CERC plan, a plan format (with descriptions of what each section may contain), and a list of CERC planning resources. A CHD CERC annex (or plan) should be tailored	[Florida Department of Health: Creating a County Crisis and Emergency Risk Communications (CERC) Annex: Guidance for CHD Planners and PIOs](#)

	based on your jurisdiction's geographic, social, political, environmental, and health and medical situations and vulnerabilities.	
CERC (Crisis and Emergency Risk Communication) and Redundant Communications	CDC Crisis and Emergency Risk Communication Course ID: ▪ Effective integration of emergency risk and crisis communication planning and resources into overall emergency operations planning at the community, state and federal levels. ▪ Emergency risk and crisis communication concepts. ▪ Crisis communication planning and tools, including problem definition, analysis, implementation of intervention, evaluation, and feedback. ▪ Application of emergency risk and crisis communication concepts to a possible or declared bioterrorism event. Type of messages the public will need. ▪ The psychology of a public health emergency and the type of messages the public will need. ▪ Response and recovery operations communication	TRAIN Course ID: 1023560
	CDC Crisis and Emergency Risk Communication website provides online training, course materials, handbooks and best practices.	CDC CERC
	Public Information Officer Awareness Training: This course covers basic information about the role of a State or local Public Information Officer. The goal of this awareness course is to provide an orientation to the public information function and the role of the Public Information Officer (PIO) in the public safety/emergency management environment.	TRAIN Course ID: 1030688
	The goal of this publication is to provide operational practices for performing PIO duties within the Incident Command System (ICS). It offers basic procedures to operate an effective Joint Information System (JIS).	National Incident Management System (NIMS) Basic Guidance for Public Information Officers (PIOs)
	The "Neighborhood Emergency Teams" (NET) guidebook is a backup to contingency plans. As designed, the booklet is used after a disaster declaration, by paired teams (city/county employee and a volunteer) who visit residents in a pre-designated area to address basic needs. The guide provides basic information in checklist form on Heat and light; Health, hygiene, and waste disposal; Food; Water; and Community-building. Candidate volunteers may be from Community Emergency Response Teams (CERT) and Medical Reserve Corps (MRC).	Neighborhood Emergency Teams: Assessment Toolkit

	West Virginia State Amateur Radio Council website provides links to local amateur radio groups statewide.	WV State Amateur Radio Council
SNS (Strategic National Stockpile)	RealOpt Software is a decision support system for mass dispensing for pandemics and bioterror attacks and radiological population screening events. It is available for free but agencies must request access using the link provided.	RealOpt Software Request
	CDC's Strategic National Stockpile (SNS) has large quantities of medicine and medical supplies to protect the American public if there is a public health emergency (terrorist attack, flu outbreak, earthquake) severe enough to cause local supplies to run out. Once Federal and local authorities agree that the SNS is needed, medicines will be delivered to any state in the U.S. in time for them to be effective. Each state has plans to receive and distribute SNS medicine and medical supplies to local communities as quickly as possible.	CDC OPHPR Strategic National Stockpile
	For local health departments in West Virginia, the Center for Threat Preparedness (CTP) provides grant guidance and resources on the Strategic National Stockpile (SNS) through its SharePoint site.	For access to the SNS page of the CTP SharePoint site contact Jim Sowards at Jim.Sowards@wv.gov
Influenza/Pandemic Flu	This interim guidance introduces a Pandemic Severity Index to characterize the severity of a pandemic, provides planning recommendations for specific interventions that communities may use for a given level of pandemic severity, and suggests when these measures should be started and how long they should be used.	Interim Pre-pandemic Planning Guidance: Community Strategy for Pandemic Influenza Mitigation in the United States
	The University of North Carolina Preparedness Center created a series of 9 modules for local health departments to assist in influenza preparedness planning.	Local Health Department Influenza Planning
	FEMA Pandemic Planning Course: The *Pandemic Planning and Preparedness* course is a three-day course that provides the planning and management level responders the tools necessary to assemble an effective pandemic planning and preparedness program. The course culminates in a practical exercise that casts students in various government roles where they must participate in planning and responding to a pandemic.	Pandemic Planning and Preparedness Course To request this course contact Christian Fernley at Gregory.C.Fernley@wv.gov. Please note that training availability changes regularly and is dependent on the course provider.
	CDC Pandemic Planning: includes resources to help hospital administrators and state and local health officials prepare for the next influenza pandemic.	CDC Pandemic Planning
Smallpox	CDC's webpage on Smallpox planning and preparedness provides a response plan and guidelines as well as Smallpox vaccine information and vaccination strategies.	CDC's Smallpox: Preparation and Planning

	Addressing the Smallpox Threat: Issues, Strategies, and Tools ▪ Smallpox Vaccination Campaign: A Federal Perspective ▪ Preparedness Issues for the Local Level ▪ Computer-Aided Design ▪ Internet Educational Tool ▪ Smallpox: State Planning and Implementation	TRAIN Course ID: 1002299
	Smallpox: this brief training provides an introduction to Smallpox.	TRAIN Course ID: 1002328
Public Health Law and Memorandums of Understanding (MOUs)	CDC Model Memorandums of Understanding This section presents selected model memorandums of understanding to enhance coordination of preparedness across sectors.	CDC Model Memorandums of Understanding (MOUs)
	CDC Public Health Law for Emergency Preparedness The Public Health Emergency Preparedness Clearinghouse is a central repository for emergency preparedness-related statutes, regulations, orders, reports, and legal tools. The Clearinghouse is intended to aid jurisdictions considering updates and clarifications to their public health emergency legal preparedness activities.	CDC Public Health Law for Emergency Preparedness
	Public Health Law: Presented in five modules, this training includes a module on governmental powers in the case of emergency; the specific context of bioterrorism is used as the exemplary base for discussion.	TRAIN Course ID: 1005195
HSEEP (Homeland Security Exercise and Evaluation Program)	For local health department staff in West Virginia, the Center for Threat Preparedness provides grant guidance and resources on the Homeland Security Exercise and Evaluation Program (HSEEP) through its SharePoint site.	For access to the HSEEP page of the CTP SharePoint site contact Jeremy Hynds Jeremy.C.Hynds@wv.gov
	The HSEEP website provides resources for managing and fulfilling HSEEP requirements in your agency.	Homeland Security Exercise and Evaluation Program (HSEEP)
	Introduction to Exercises: This course will introduce you to the following concepts: ▪ Managing an exercise program ▪ Designing and developing an exercise ▪ Conducting an exercise ▪ Evaluating an exercise ▪ Developing and implementing an improvement plan	TRAIN Course ID: 1011646
	Exercise Evaluation and Improvement Planning At the end of this course, you will: ▪ Understand the Exercise Evaluation and Improvement Planning steps ▪ Comprehend the process of designing and developing exercise	TRAIN Course ID: 1011883

	evaluation criteria • Identify the necessary tasks in conducting an exercise evaluation • Understand methods of analyzing exercise data • Identify the steps necessary to prepare an After Action Report (AAR) and conduct an After Action Conference (AAC) • Recognize the requirement of developing and implementing an improvement plan	
	Exercise Design: This course will cover the purpose, characteristics, and requirements of three main types of exercises: Tabletop exercise Functional exercise Full-scale exercise In addition this course will cover: Exercise evaluation. Exercise enhancements. Designing a functional exercise.	TRAIN Course ID: 1011883
All-Hazards	Developing and Maintaining Emergency Operations Plans: Comprehensive Planning Guide (CPG) While this guide is built for emergency managers, it provides a good overview of planning principles.	Developing and Maintaining Emergency Operations Plans: Comprehensive Planning Guide (CPG)
	CDC's *Public Health Preparedness Capabilities: National Standards for State and Local Planning* now provides a guide that state and local jurisdictions can use to better organize their work, plan their priorities, and decide which capabilities they have the resources to build or sustain. The capabilities also help ensure that federal preparedness funds are directed to priority areas within individual jurisdictions.	TRAIN Course ID: 1028235

Sector-Specific Resources

Partner	Resource Description	Link
City and County Officials	Produced by the National Association of Counties Research Foundation in cooperation with the International Association of Emergency Managers. This guide will help county officials understand what NIMS is and the role counties play in planning to prepare for and respond to emergencies of any type and of any scale.	National Incident Management System (NIMS) Guide for County Officials
Emergency Responders (general)	NIOSH and RAND produced four reports in a series. The first three reports provide recommendations and the need for research, training and other strategic approaches to help protect emergency responders in terrorist attacks. The fourth report is a technical source for incident commander guidelines for emergency response immediately following large structural collapse events.	CDC Responder Health and Safety Resources
Faith communities and voluntary organizations	This checklist provides guidance for religious organizations (churches, synagogues, mosques, temples, etc.), social service agencies that are faith-based, and community organizations in developing and improving influenza pandemic response and preparedness plans. You can find more information at www.pandemicflu.gov	Faith-Based and Community Organizations Pandemic Influenza Preparedness Checklist
	IS-288 The Role of Voluntary Agencies in Emergency Management: This independent study course provides a basic understanding of the history, roles and services of disaster relief voluntary agencies in providing disaster assistance. It is appropriate for both the general public and those involved in emergency management operations.	TRAIN Course ID: 1002560
Home-Health Agencies	Developed by the National Association for Home Care and Hospice, this packet includes templates of tools to assist in emergency preparedness for agencies, patients and their families, and agency staff. In addition, the incident command system has been outlined and included to instruct homecare and hospice providers of state and local emergency response structures.	Emergency Preparedness Packet for Home Health Agencies
Hospitals	The US Department of Health and Human Services Assistant Secretary for Preparedness and Response (ASPR) manages the Hospital Preparedness Program (HPP). The HPP website	ASPR Hospital Preparedness Program

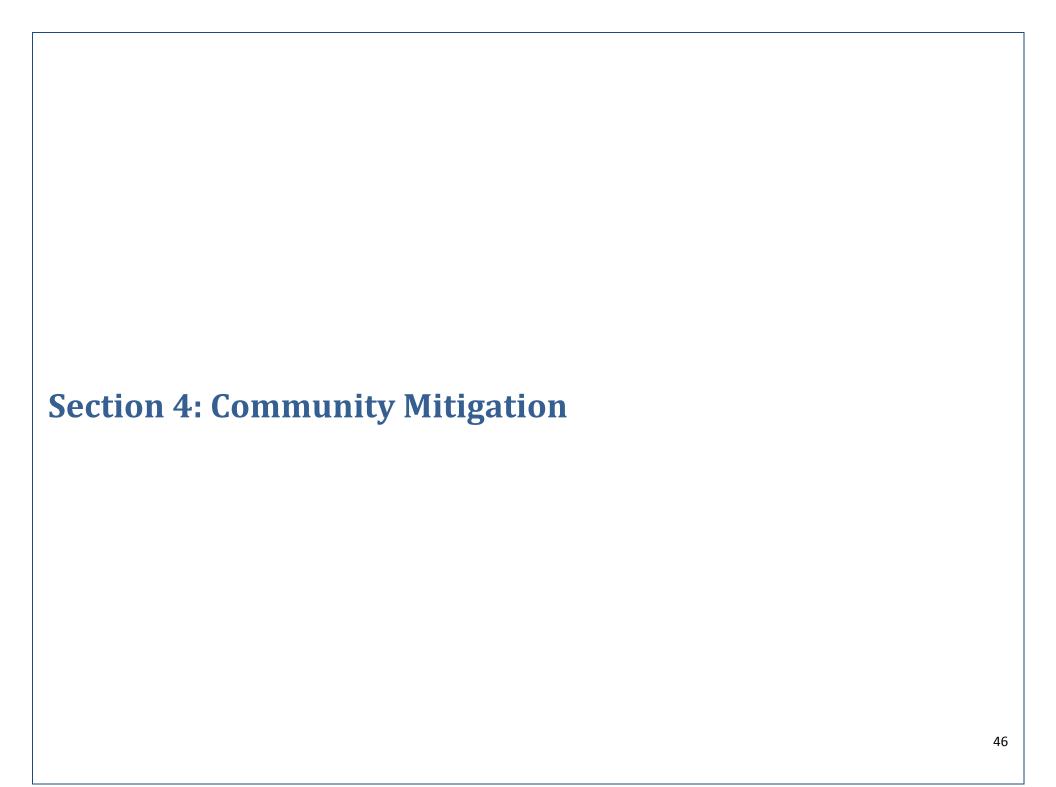|		
	provides comprehensive reports on hospital planning requirements for emergencies.	
	West Virginia Hospital Association provides preparedness resources and training opportunities for hospitals on its website.	WVHA Disaster Preparedness Contact Samantha Stamper (304) 353-9728 sstamper@wvha.org or Lisa Green (304) 353-9705 lgreen@wvha.org for more information.
	The American Hospital Association (AHA) provides links to multiple emergency preparedness resources for hospitals.	AHA Hospital Readiness Resources
Law Enforcement	Law Enforcement's Roles and Responsibilities in Disaster Situations ▪ List the predominant local, state, and federal law enforcement assets involved in disaster management, and describe their structures ▪ Describe the role and function of local, state, and federal law enforcement officials in responding to disasters ▪ Recommend strategies to improve communication, planning and interagency coordination between local, state, and federal law enforcement organizations	TRAIN Course ID: 1030146
	This summary document, published by the Bureau of Justice Assistance (US Department of Justice) and the Police Executive Resource Forum provides an overview of three guides published to assist law enforcement during public health emergencies	Law Enforcement Preparedness for Public Health Emergencies
Long Term Care Facilities	Developed by the Centers for Medicare and Medicaid, this checklist provides guidance for preparedness and planning for long term care facilities.	Long Term Care Emergency Preparedness Checklist
Primary Care	This toolkit is intended to be used by leadership of community practice sites (including community health centers, group practices, and specialty care practices) to (1) assess vulnerability, create an emergency preparedness plan, train staff to the plan and evaluate the staff's readiness through participation in drill and exercises and (2) connect with local emergency management planners to better understand how your resources and expertise can be used during an emergency response.	Columbia University School of Nursing: Emergency Preparedness Toolkit for Community Health Centers & Community Practice Sites

	West Virginia Primary Care Association provides trainings and resources for primary care and health centers on emergency preparedness and response.	WV Primary Care Association Contact Terri Barrett at (304) 346-0032, or terri.barrett@wvpca.org for more information
Private sector	The Small Business Association provides education, training, testing and disaster assistance resources for businesses through its Prepare My Business website.	http://www.preparemybusiness.org/
Schools, Colleges and Universities	Links to multiple reports and checklists on school safety and response during emergencies including: Biosecurity Checklist for School Foodservice Programs (USDA), Emergency Planning (Department of Education), and Legal Preparedness for School Closures in Response to Pandemic Influenza and Other Emergencies (Georgetown University) among others	CDC Preparedness Resources for Schools

National Incident Management System (NIMS)

NIMS Level	Resource Description	Link
NIMS Overview	The National Incident Management Training Program is the best resource for guidance on staff training requirements.	National Incident Management Training Program
Basic NIMS Courses	ICS 100, An Introduction to the Incident Command System: This course introduces ICS and provides the foundation for higher level ICS training. It describes the history, features and principles, and organizational structure of the system. It also explains the relationship between ICS and NIMS.	TRAIN Course ID: 1024627
	ISC 700 NIMS: This course introduces the NIMS concept. NIMS provides a consistent nationwide template to enable all government, private sector, and nongovernmental organizations to work together during domestic incidents.	TRAIN Course ID: 1016070
Supervisory NIMS Courses (in addition to basic courses)	All-hazards, position-specific courses are designed to provide an overview of key NIMS principles relating to MACS, public information, resource management, mutual aid, and communication and information management. FEMA recommends completion of ICS 100 and ICS 700 prior to taking these courses.	National Incident Management Training Program Additional Training pp.11-15
	ICS 200, ICS for Single Resources and Initial Action Incidents: This course is designed to enable personnel to operate efficiently during an incident or event within the ICS. This course focuses on the management of single resources.	TRAIN Course ID: 1024638
	ICS 300, Intermediate ICS for Expanding Incidents: ICS-300 provides training and resources for personnel who require advanced application of the ICS. The course expands upon information covered in the ICS-100 and ICS-200 courses. This course is intended for individuals who may assume a supervisory role in expanding incidents or Type 3 incidents.	In-person training. Check with your emergency manager, your local fire department or contact the state training coordinator in the WV Division of Homeland Security and Emergency Management.
	ICS 400, Advanced ICS: This course provides training and resources for personnel who require advanced application of the ICS. This course expands upon information covered in ICS-100 through ICS-300 courses. The target audience for this course is senior personnel who are expected to perform in a management capacity in an area command or multiagency coordination entity.	In-person training. Check with your emergency manager, your local fire department or contact the state training coordinator in the WV Division of Homeland Security and Emergency Management.
	ICS 800, National Response Framework, An Introduction: This course provides an introduction to the National Response Framework. This course is intended for government executives, private-sector and nongovernmental organization leaders, and emergency management practitioners. This includes those who have a responsibility to provide for effective response.	TRAIN Course ID: 1011882

Volunteer Management

Description	Link
Developing and Managing Volunteers: This course is for emergency managers and related professionals working with all types of volunteers and coordinating with voluntary agencies. The course provides procedures and tools for building and working with voluntary organizations. Topics include: ▪ Benefits and challenges of using volunteers ▪ Building a volunteer program ▪ Writing job descriptions ▪ Developing volunteers through recruitment, placement, training, supervision and evaluation ▪ Coordinating with voluntary agencies and community-based organizations ▪ Special issues including spontaneous volunteers, liability, and stress	TRAIN Course ID: 1025699
This toolkit was developed by the Mesa County Advanced Practice Center to help hospitals and public health agencies integrate volunteer support into hospital inpatient, emergency department, and incident response operations through deployment of "Just-in-time" training (JITT) and exercise curricula.	Blueprint for the Use of Volunteers in Hospitals and Rural Medical Centers
The WV Responder Emergency Deployment Information (REDI) system is a web-based system developed to facilitate health and medical response through identification, credentialing and deployment of West Virginians willing to serve in an emergency, as well as non-emergent situations.	WVREDI
Inclusive Just-In-Time Training (JITT) is an online module for public health leaders that describes the framework, methods and environment of *Inclusive JITT*. A case study illustrates the three principles of *Inclusive JITT*—learning dimensions, learning styles and cultural context—and describes how local health departments can adopt and use the model to enhance training for staff and volunteers.	TRAIN Course ID: 1024978
Volunteer West Virginia, the state's Commission for National and Community Service challenges West Virginians to strengthen their communities through service and volunteerism. We identify and mobilize resources, promote an ethic of service, and empower communities to solve problems and improve the quality of life for individuals and families.	Volunteer WV
The Community Emergency Response Team (CERT) website provides resources for starting a CERT team in your community, providing trainings for CERT volunteers and partnering with other CERTs.	Community Emergency Response Team
The Medical Reserve Corps (MRC) website provides resources for starting an MRC in your community, providing trainings for MRC volunteers and partnering with other MRC units.	Medical Reserve Corps
Emergency Management for Health Care Facility Volunteers ▪ Recognizing the types of emergencies and disasters that can impact health care facilities and volunteers ▪ Recognizing the benefits of the National Incident Management System (NIMS) ▪ Understanding the components of the Incident Command System (ICS) ▪ Preparing health care volunteers for their roles and responsibilities ▪ Discussing steps for personal and family preparedness	TRAIN Course ID: 1018143
West Virginia VOAD is a humanitarian association of independent organizations that may be active in all phases of disaster.	Voluntary Organizations Active in Disasters (VOAD)

Section 4: Community Mitigation

Resources on Planning for Access and Functional Needs

Population	Resource Description	Link
Persons with access and functional needs	A pocket guide developed by the University of New Mexico Center for Development and Disability provides a quick reference for first responders helping people with many different disabilities during a disaster.	Pocket Guide
	Special Needs Populations in Disaster Response: The course will discuss the basic principles which should underlie disaster consequence management, planning and appropriate actions within the action phases of disaster response. It will focus on the saving of life and mitigation of injury for victims with special needs and vulnerabilities.	TRAIN Course ID: 1016030
	This document describes a process that will help planners to define, locate, and reach at-risk populations in an emergency. Additional tools are included to provide resources for more inclusive communication planning that will offer time-saving assistance for state, local, tribal, and territorial public health and emergency management planners in their efforts to reach at-risk populations in day-to-day communication and during emergency situations.	CDC Public Health Workbook for Access and Functional Needs Planning
Older Adults	This guide aims to equip public health officials, the aging services network, emergency management, and essential partners from other sectors and at all jurisdictional levels with critical information, strategies, and resources to improve the planning for and protection of vulnerable community-dwelling older adults during all-hazards public health emergencies.	CDC Identifying Vulnerable Older Adults and Legal Options for Increasing Their Protection During All-Hazards Emergencies: A Cross-Sector Guide for States and Communities
	Older Adults: Vulnerable During Disasters: Topics covered include the key concerns that may arise for older adults caught in disasters, such as sensory deprivation, the multiple loss effect, and chronic health issues, and what can be done to make older adults less vulnerable.	TRAIN Course ID: 1012938
	This booklet can be printed and handed-out to older adults in your community to assist them with preparing for disasters.	Disaster Preparedness: For Seniors, By Seniors
Children	READY.gov, a website hosted by the Federal Emergency Management Agency (FEMA), provides a website and materials to explain the importance of preparedness to children.	http://www.ready.gov/kids
	This booklet, published by the National Institute of Mental Health, provides steps parents can take to help their children cope with violence and disasters. You can either download it or order a free hard copy.	Helping Children and Adolescents Cope with Violence and Disasters: What Parents Can Do

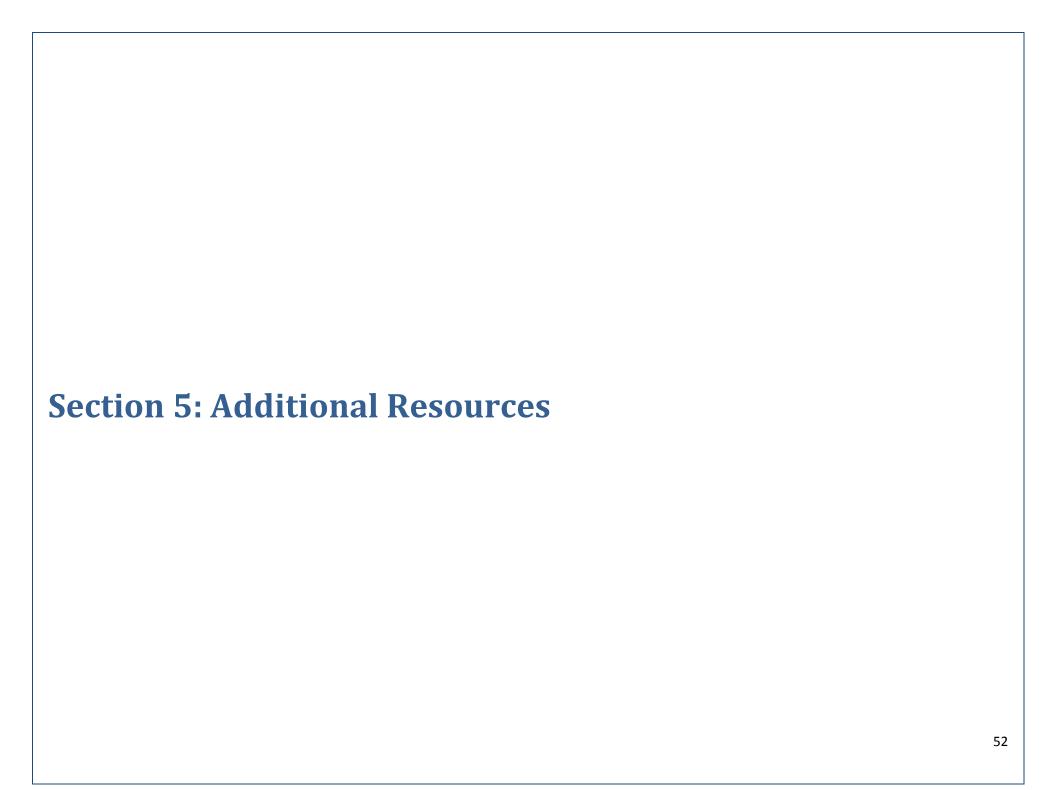|		
	West Virginia's Family Resource Networks (FRNs) are local coalitions working to improve services for children and families in their communities. FRNs assess community needs, develop local plans, promote changes, evaluate results, and assist state agencies in improving the service delivery system. They increase community awareness of local and state issues that affect children and families, support local partnerships to maximize community investments, promote coordination of services, and promote opportunities for families to impact decisions that affect them.	WV DHHR Family Resource Networks
	The National Center for Disaster Medicine and Public Health produced this online lesson on responding to an unaccompanied child in a disaster. After reviewing the core material, learners will solve three case studies with their acquired knowledge. Learners can also access and complete a downloadable reference card for use during a disaster.	Tracking and Reunification of Children in Disasters: A Lesson and Reference for Health Professionals
Persons with disabilities	Training : Planning For Disasters-Related Risk Factors and Functional Needs of People with Disabilities The purpose of this course is to provide: 1.) Knowledge and skills to identify the needs of people with disabilities and plan adequately to meet needs. 2.) Instruction in all-hazards preparedness for people with disabilities. 3.) Continuing education	TRAIN Course ID: 1026403
	Assisting Persons with Disabilities During an Emergency ■Identify issues to consider when assisting persons with disabilities, including those with hearing loss, vision loss, intellectual disabilities, communication disabilities, and mobility disabilities ■Discuss means of transporting individuals with mobility disabilities during times of emergency	TRAIN Course ID: 1029785
	Readiness brochure for individuals with disabilities	National Organization on Disability: Disaster Readiness Tips for People with Disabilities
Persons with a chronic condition	Disaster Preparedness and the Chronic Disease Needs of Vulnerable Older Adults	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2248769/
Incarcerated persons	It is NIC's hope that this publication will be broadly useful to U.S. jails in planning for crises, emergencies, and natural disasters and in developing the appropriate response capacities to cope with these events where they cannot be prevented.	A Guide to Preparing for and Responding to Jail Emergencies
Persons with limited English	The Council on Advancing Emergency Preparedness for Culturally Diverse Communities offers numerous resources for planners.	Advancing Emergency Preparedness for Culturally Diverse Communities

Persons with behavioral health needs	This document, the Mental Health All-Hazards Disaster Planning Guidance, is intended to serve as a companion piece to the SLG by providing direction and support tailored specifically for State and local mental health leaders as they create and/or revise all-hazards response plans. In particular, the document provides counsel to States on considerations for the planning process, and for actual plan content.	[Mental Health All-Hazards Disaster Planning Guidance](#)
	The WV Bureau for Behavioral Health and Health Facilities website lists behavioral health services and centers across the state.	[WV Bureau for Behavioral Health and Health Facilities](#)
	The National Institute of Mental Health provides Brief overviews and frequently asked questions about specific mental health topics.	[National Institute of Mental Health: Fact Sheets](#)
Transient persons	National Health Care for the Homeless Council: Disaster Planning for People Experiencing Homelessness This publication provides an overview of important issues to consider when planning for the needs of homeless people during disasters. Practical guidance is offered to local officials, emergency planners, homeless service providers and others who are involved in their community's emergency planning process.	[Disaster Planning for People Experiencing Homelessness](#)

County Planning Resources

Plan/Annex	Resource Description	Link
Pet and Large Animal Sheltering	The Animals in Emergencies for Planners video is intended to help emergency planners and public officials incorporate protection for animals into community emergency plans. The training discusses how to estimate the number of animals in the community for planning purposes, issues related to evacuating and sheltering-in-place, the importance of tracking animals, basic precautions to take when pets and livestock are returned, and how Animal Response Teams provide aid in disasters.	Animals in Emergencies
	Animals in Disasters: Community Planning The objectives of this course are to learn how to develop a community plan for managing animals in an emergency, identify hazards and threats most likely to affect your community and ways to minimize their impact on animals, indicate how communities use the Incident Command System (ICS) to respond effectively to an incident involving animals, describe resources available to help communities recover from a disaster, and develop community support for a disaster preparedness plan involving animals.	TRAIN Course ID: 1024639
Donations Management	FEMA, the Aidmatrix Foundation and Corporate Sponsors have partnered to launch a virtual portal to allow companies or individuals to offer their support on-line to leading organizations in humanitarian relief. This portal is designed to make it as easy to offer financial support, product donations, or to donate your skills and time to nonprofit organizations active in disaster relief.	National Donations Management Network
Volunteer Management	This FEMA document provides guidance on managing unaffiliated volunteers during disasters and incorporating them into response structures.	Managing Spontaneous Volunteers in Times of Disaster: The Synergy of Structure and Good Intentions
Special Population Registry	This website includes a list of resources, contacts and reference materials for persons with disabilities and the public safety community, including information on special needs/populations registries.	Federal Communications Commission (FCC) Resources

Partnership Building

Area	Resource Description	Link
Coalitions	Developing Effective Coalitions: An Eight Step Guide This step-by-step guide to coalition building helps partnerships launch and stabilize successfully. It supports advocates and practitioners in every aspect of the process-from determining the appropriateness of a coalition to selecting members, defining key elements, maintaining vitality, and conducting ongoing evaluations.	Developing Effective Coalitions: An Eight Step Guide
	Collaboration Multiplier is an interactive framework and tool for analyzing collaborative efforts across fields. It is designed to guide an organization to a better understanding of which partners it needs and how to engage them, or to facilitate organizations that already work together in identifying activities to achieve a common goal, identify missing sectors that can contribute to a solution, delineate partner perspectives and contributions, and leverage expertise and resources. Using Collaboration Multiplier can help lay the foundation for shared understanding and common ground across all partners.	Collaboration Multiplier
	The Tension of Turf: Making it Work for the Coalition This guide helps coalitions derive authentic, constructive power from their varying perspectives, skills, and mandates.	The Tension of Turf: Making it Work for the Coalition
Facilitation	This guide, developed by the United Kingdom's National Health Service, is designed to give you the know-how and confidence to effectively facilitate workshops and group meetings. You will find lots of things to consider and practical tips, including: • advice to help you prepare for your role as a facilitator • tools and techniques to choose from according to how you want to run your workshop or meeting	A Handy Guide to Facilitation
	This toolkit, developed by the United Kingdom's National Health Service, includes tips on how to make your trainings and meetings more interesting as well as tips on how to facilitate effectively.	The Facilitator's Toolkit

Section 5: Additional Resources

State and National Training Resources

Organization	Description	Link
West Virginia Statewide Training Management Systems	The Center for Threat Preparedness and several other offices within the Bureau for Public Health use WV TRAIN to post and manage trainings. Through WV TRAIN you can: ▪ Find and register for many courses listed on Train.org and participating TRAIN affiliate sites ▪ Track your learning with personal online transcripts ▪ Stay informed of the latest public health trainings for your area or expertise.	https://wv.train.org/DesktopShell.aspx
	The West Virginia Homeland Security Administrative Agency uses CourseMill to post and manage trainings. Through CourseMill you can: ▪ Find and register for upcoming courses ▪ Track your learning	http://www.onlinelearning.wv.gov/dmapscm6/cm0670/home.html
CDC Funded Preparedness and Emergency Response Research Centers (PERC)	The intent of the program for Preparedness and Emergency Response Research Centers (PERRCs) is to use the public health systems research approach to examine the organization, function, capacity, and performance of components in the public health system in preparing for and responding to all potential threats and hazards. In September 2008, OPHPR awarded approximately $10.9 million over five years to seven accredited schools of public health for establishing PERRCs. The research conducted at the PERRCs will address several of the research priorities recommended by the IOM. The findings from these projects will be used to help improve public health practice for preparedness and emergency response planning and policies at the local, state, federal and tribal level. The website includes program updates and research conducted by the Centers.	CDC Office of Public Health Preparedness and Response Extramural Research Program
CDC Funded Preparedness and Emergency Response Learning Centers (PERLC)	The CDC-funded Preparedness and Emergency Response Learning Centers (PERLC) were established to enhance public health training and workforce. The learning centers will serve in a national capacity for preparedness and response training and education needs of the U. S. public health workforce. The learning centers provide unique workforce development needs by offering assistance to nearby state, local, and tribal public health authorities.	CDC Office of Public Health Preparedness and Response Training

National Association of City and County Health Officials (NACCHO) Advanced Practice Centers	The Advanced Practice Centers (APC) Program provides free public health preparedness resources that can be easily implemented by any local health department (LHD) as they are created *by* LHDs, *for* LHDs. The products are easily adaptable, and have been tested in real world environments by health departments. These centers were closed in September, 2012 but the materials are still available through NACCHO's website.	NACCHO Advanced Practice Centers
Disaster Information Management Research Center – Department of Health and Human Resources	The **Resource Guide for Disaster Medicine and Public Health** is a gateway to freely available online resources related to disaster medicine and public health. Resources include expert guidelines, factsheets, websites, research reports, articles, and other tools aimed at the public health community.	DHHR Disaster Information Management Research Center