



National Institute of Environmental Health Sciences
Your Environment. Your Health.

Worker Training Program Grantee Meeting

NIEHS

Rodbell Auditorium

September 28, 2015





Joseph T. Hughes Jr.
Director
Worker Training Program
Division of Extramural Research & Training
National Institute of Environmental Health Sciences



National Institute of
Environmental Health Sciences
Worker Training Program



**WELCOME
TO THE
NEXT FIVE YEARS
OF THE
NIEHS WORKER TRAINING PROGRAM!!**

**A three year program that has been going
for thirty years (1986-2016)**



Public Law 99-499
99th Congress

100 STAT. 1690

Superfund Amendments and Reauthorization Act of
1986 (SARA)
TITLE I
29 USC 655

Sec. 126. WORKER PROTECTION STANDARDS.

(g) GRANT PROGRAM.

(1) GRANT PURPOSES. Grants for the training and education of workers who are or may be engaged in activities related to hazardous waste removal or containment or emergency response may be made under this subsection.

(2) ADMINISTRATION. Grants under this subsection shall be administered by the National Institute of Environmental Health Sciences.

(3) GRANT RECIPIENTS. Grants shall be awarded to nonprofit organizations which demonstrate experience in implementing and operating worker health and safety training and education programs and demonstrate the ability to reach and involve in training programs target population of workers who are or will be engaged in hazardous waste removal or containment or emergency response operations.



NIEHS Superfund Worker Training Program

- **Mission:** To prevent work-related harm assisting in the development of state-of-the-art training programs for hazardous materials handlers, chemical emergency responders, and waste cleanup workers
- **National Network:** Over 100 non-profit safety and health training organizations combined into 20 training consortia
- **Where:** Training conducted in all fifty states and U.S. territories.
- **How Many:** In FY2014, 161,000 workers trained in 9,500 courses, over 2.6 million trained since program began in 1987



Goals: The major objective of the Worker Training Program is to prevent work-related harm by assisting in the training of workers in how best to protect themselves and their communities from exposure to hazardous materials encountered during hazardous waste operations, hazardous materials transportation, environmental restoration of contaminated facilities or chemical emergency response. This includes training within the Department of Energy (DOE) Nuclear Weapons Complex.

Need: There are literally thousands of sites, such as those involved with chemical waste clean up and remedial action and transportation-related chemical emergency response, that pose severe health and safety concerns to workers and the surrounding communities. These sites contain a multiplicity of hazardous substances, sometimes unknown substances, and often the site is uncontrolled.

Strategic Plan Goal: Corresponds to NIEHS SP Goals 5 (Emerging Threats), 6 (Environmental Health Disparities/EJ), 8 (Education & Training), 10 (Economic Impact), 11 (Communications) and the WETP Strategic Plan and Logic Model.

WTP: Saving lives, preventing injury everyday



- The core of the WTP mission is the worker who comes home safely every day.
- Workers trained include:
 - firefighter and emergency medical technicians,
 - law enforcement officers,
 - hospital first receivers,
 - crane and bulldozer operators,
 - laborers,
 - public utility employees,
 - chemical factory workers

WTP works where the need is often greatest



WTP's national network helps identify at risk populations and respond to their training needs.

- Day Laborers Initiative
- Native American Training Initiative



WTP creates new opportunities



- **WTP Environmental Careers Program** was formerly the Minority Worker Training Program
- **Success:** Since beginning, 10,000 workers have trained under this program with nearly 70 % employed
- **Success:** 90% job placement in New Orleans, LA; East Palo Alto, CA; and in St. Paul MN
- **Program Economic Impact Analysis:** millions of dollars in return on investment each year.

The WTP Network Responds!

- **Past Responses:** World Trade Center attack, Hurricanes Katrina and Rita, Super Storm Sandy, the Gulf Oil Spill, Midwest Floods, the Ebola Crisis and the Far West Wildfires.



- **Super Storm Sandy Update:** On-going training in New York and New Jersey
- **Mental Health Resiliency Project:** training to ease post disaster traumatic stress
- **Ebola Exposure Prevention Training** for hospital employees, emergency first responders, and other worker populations with potential exposure.





WHERE WE WERE WHEN LAST STARTED THIS JOURNEY FIVE YEARS AGO!



**In remembrance of the eleven Deepwater
Horizon drilling rig workers who died at MC252.
May they not be forgotten.**

Gulf Oil Spill – vessel decontamination operations in Venice, LA





Field Training for Vessels of Opportunity (VOO) workers in Venice, LA





Over 25,000 guides distributed

Front-line responders,
instructors, and safety officials

English, Spanish, & Vietnamese

National Institute of Environmental Health Sciences
Oil Spill Cleanup Initiative

**Safety and Health Awareness for
Oil Spill Cleanup Workers**






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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health


OSHA[®] Occupational
Safety and Health
Administration

National Institute of Environmental Health Sciences
Iniciativa de Limpieza del Derrame de Petróleo

**Seguridad y Concienciación de Salud para
Trabajadores de Limpieza de Derrames de Petróleo**






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National Institutes of Health


OSHA[®] Occupational
Safety and Health
Administration
1-800-321-OSHA (6742)

Mayo 2010, v5 OSHA 3391-052010

PROGRAMA DE EDUCACIÓN Y DE CAPACITACIÓN DE LOS TRABAJADORES

NIEHS Oil Spill Cleanup Training Tool 

**HOẠT ĐỘNG TÍCH CỰC ĐỂ DỌN SẠCH
THẢM HỌA TRẦN DẦU**

Kiến Thức Về Sự An Toàn và Sức Khỏe cho
Nhân Viên Dọn Sạch Hiện Trường Trần Dầu





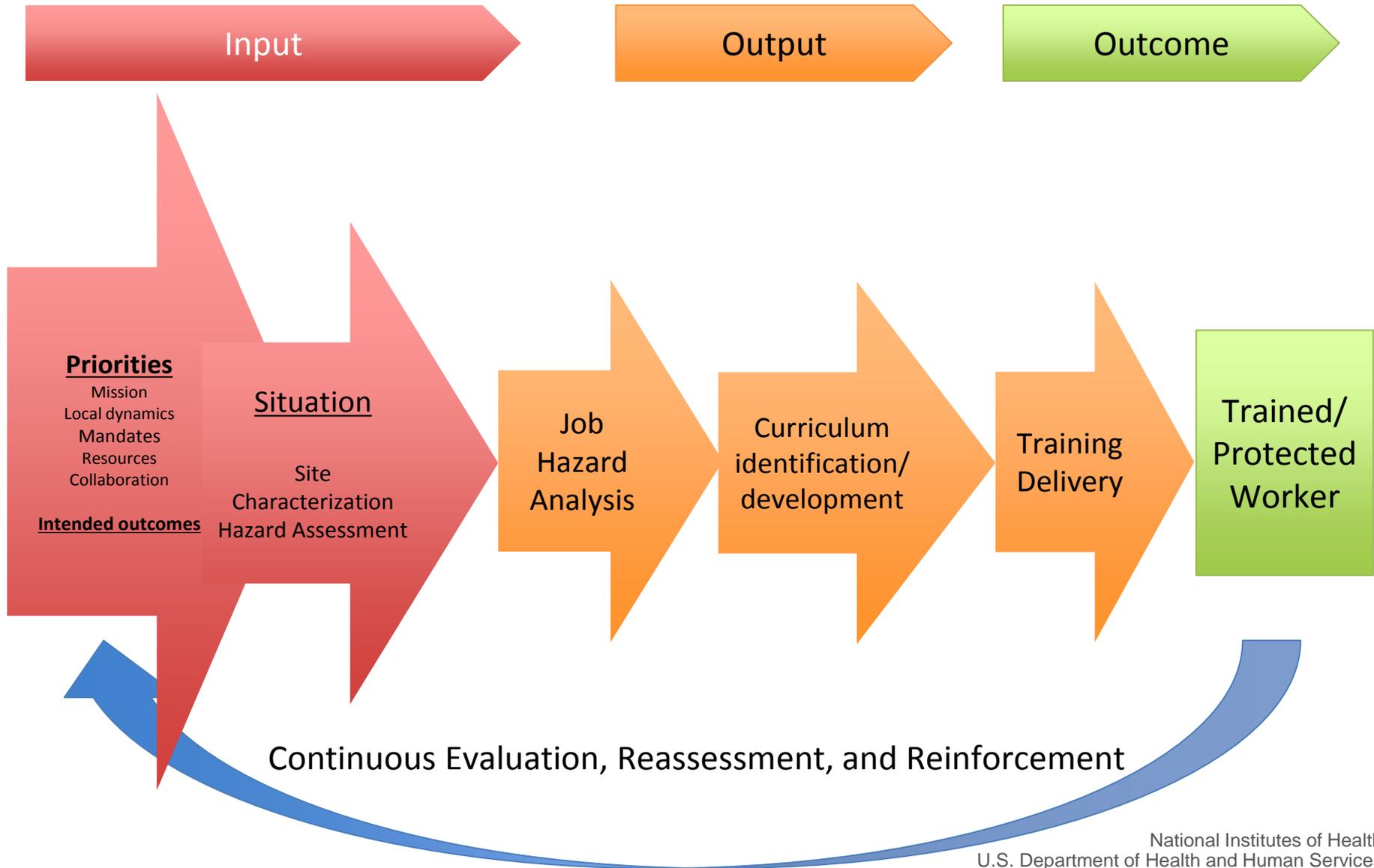

NIEHS
National Institute of
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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
National Institutes of Health


OSHA[®] Occupational
Safety and Health
Administration

Tháng Năm 2010, v4.1 OSHA 3388-052010

WORKER EDUCATION & TRAINING PROGRAM Department of Health and Human Services





NIEHS Hazmat Preparedness Initiatives:

Awareness for Radiological Dispersion Device (RDD) Preparedness

Protecting Yourself During a Dirty Bomb Response

An Awareness Level Training Tool for Skilled Support Personnel



National Institute of Environmental Health Sciences
Hurricane Response Orientation

Safety Awareness for Responders to Hurricanes
Protecting Yourself While Helping Others



National Institute of Environmental Health Sciences
Avian Influenza: Worker Safety & Awareness

Protecting Yourself from Avian Influenza



National Institute of Environmental Health Sciences
Flood Response Orientation

Safety Awareness for Responders to Floods:

Protecting Yourself While Helping Others



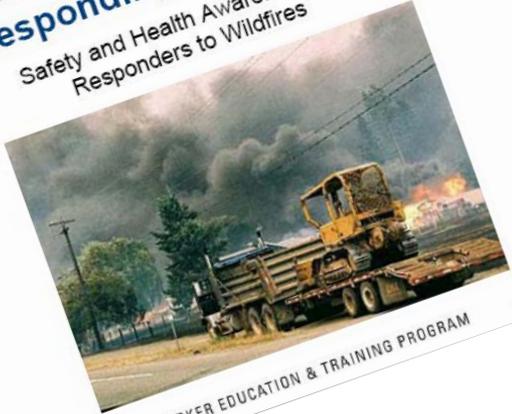
June 2008

WORKER EDUCATION & TRAINING PROGRAM

NIEHS Wildfire Response Training Tool

Protecting Yourself While Responding to Wildfires

Safety and Health Awareness for Responders to Wildfires



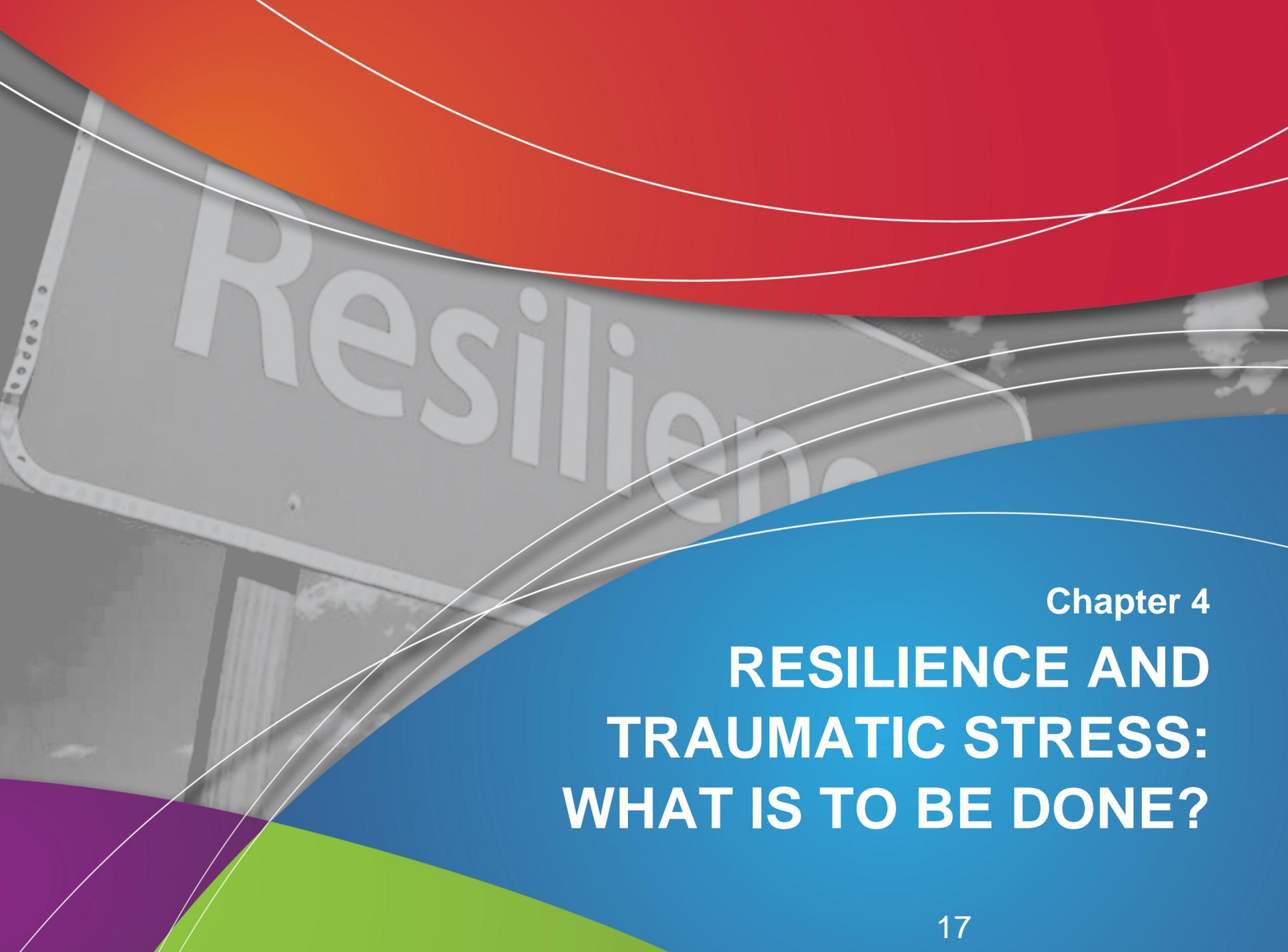
WORKER EDUCATION & TRAINING PROGRAM



V8 December 2007

WORKER EDUCATION & TRAINING PROGRAM





Resilience

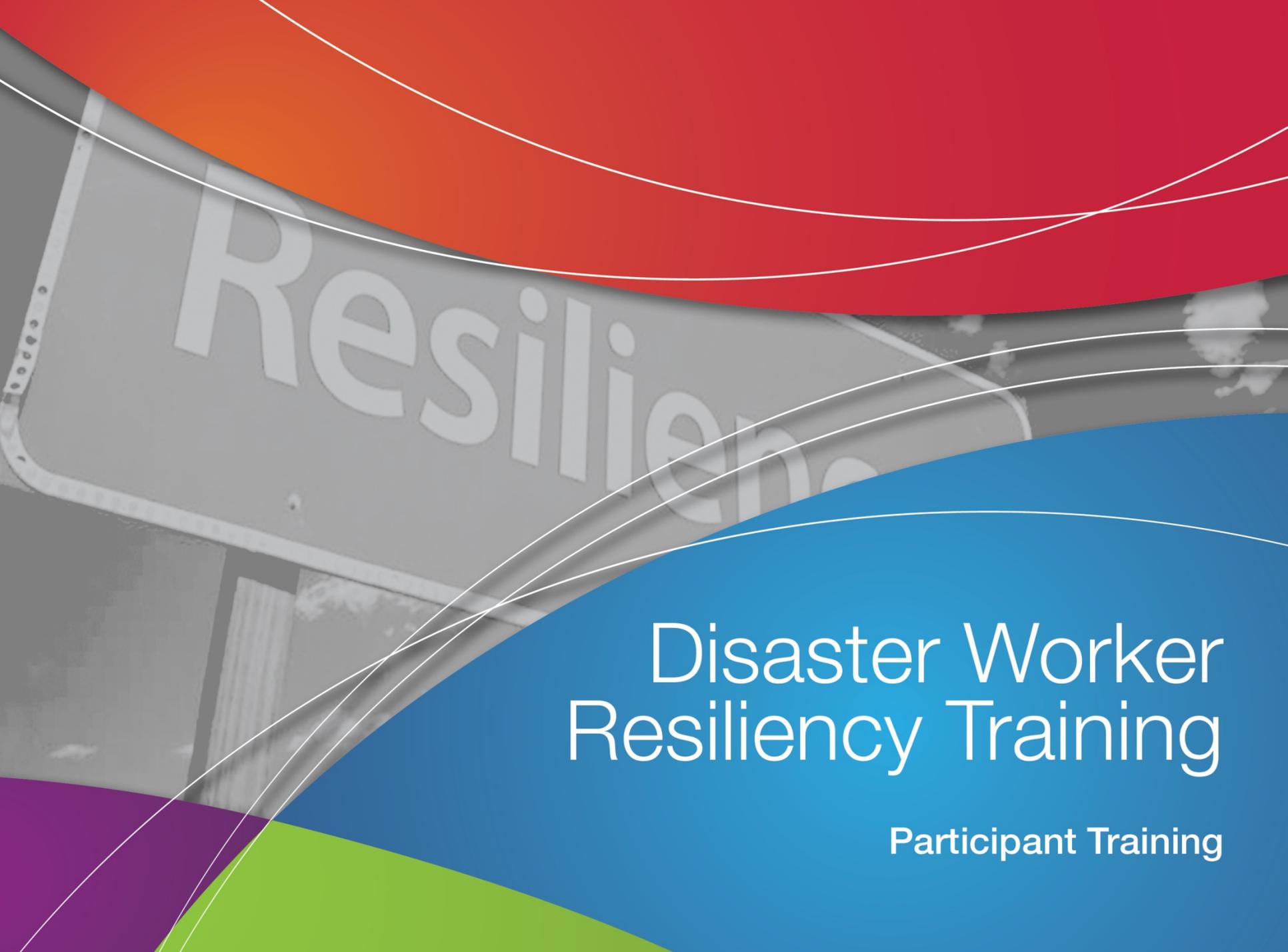
Chapter 4

**RESILIENCE AND
TRAUMATIC STRESS:
WHAT IS TO BE DONE?**

Stressful working conditions and fatigue

- **Stressful working conditions:**
- Increase the likelihood of injury and illness
- What are examples of stressful working conditions?
- **Fatigue:**
- Contributes to failing to use proper equipment and safety procedures
- Causes impairment similar to alcohol
- Affects alertness, reaction times, and performance





Resiliency

Disaster Worker Resiliency Training

Participant Training



An Actual Mission Assignment from FEMA

DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY MISSION ASSIGNMENT (MA)		See Reverse for Paperwork Burden Disclosure Notice	O.M.B. NO. 1660-0047 Expires March 31, 2014
I. TRACKING INFORMATION (FEMA Use Only)			
State NY (New York) Incident:2012102505-Hurricane Sandy		NEMIS Number 1509-162021	
Program Code/Event Number 4085DR-NY: HURRICANE SANDY		Date/Time Received 12/29/2012 21:29	
II. ASSISTANCE REQUIRED <input checked="" type="checkbox"/> See Attached			
Assistance Requested Amendment #2. Increase funding by \$200,000 to total \$277,000 and change estimated end date to 3/1/12. This is based on continuing need for deployed staff and need for additional health and safety training staff.			
Amendment #1 Increase funding for 4085DR-NY-HHS-10 by \$25,000 to total \$77,000 to cover HHS recovery mission requirements. Additional personnel from ACF are			
Delivery Location Joint Field Office NY, 118-35 Queens Blvd. Forest Hills, NY 11375	Internal Control Number ARF # 197-451	Date/Time Required 12/29/2012	
Initiator/Requestor Name Esmeralda Pereira	24 Hour Phone Number (202) 631-4763	Email Address esmeralda.pereira@hhs.gov	Date 12/29/2012
Site POC Name CIACCI, LAWRENCE F	24 Hour Phone Number (212) 680-3679	Email Address lawrence.clacchi@fema.dhs.gov	Date 12/29/2012
* State Approving Official (Required for DFA and TA)			
III. INITIAL FEDERAL COORDINATION (Operations Section)			
Action to:	<input type="checkbox"/> ESF #: _____ Date/Time _____	Priority	<input type="checkbox"/> 1. Lifesaving <input checked="" type="checkbox"/> 3. High <input checked="" type="checkbox"/> Other: _____ 12/29/2012 21:29 <input type="checkbox"/> 2. Life sustaining <input type="checkbox"/> 4. Medium
IV. DESCRIPTION (Assigned Agency Action Officer) <input checked="" type="checkbox"/> See Attached			
Statement of Work In accordance with the NDRF, the H&SS RSF Field Coordinator will work with the FEMA-appointed Federal Disaster Recovery Coordinator (FDRC) for 4085-DR-NY and the applicable State and Tribal Lead(s) to coordinate Federal support for State/Tribe-identified health and social services recovery needs, engage in mission scoping, and participate in the development of a Federal Recovery Support Strategy. As part of this mission scoping operation, Your agency must validate the unliquidated MA balance at least annually as stipulated by FEMA to maintain reimbursable authority. Accrual data must also be provided to FEMA no later than the third business day after fiscal quarter end close. Information can be submitted FEMA-Disaster-MA-ULO@DHS.gov			
Assigned Agency HHS (DEPT. OF HEALTH & HUMAN SVC.)	Projected Start Date 11/06/2012	Projected End Date 03/01/2013	
<input type="checkbox"/> New or <input checked="" type="checkbox"/> Amendment to MA #: 4085DRNYHHS1001	Total Cost Estimate \$200,000.00		
ESF/OFA Action Officer ESMERALDA PEREIRA, H7SS RSF NATIONAL COORDINATOR	Phone No. (202) 631-4763	Email esmeralda.pereira@hhs.gov	
V. COORDINATION (FEMA Use Only)			
Type of MA:	<input type="checkbox"/> Direct Federal Assistance State Cost Share (0%, 10%, 25%)	<input type="checkbox"/> Technical Assistance State Share (0%)	<input checked="" type="checkbox"/> Federal Operations Support State Share (0%)
State Cost Share Percent	0.0 %	State Cost Share Amount: \$ 0.00	
Fund Citation:	2013-06-4085DR-9024-XXXX-2501-D		
Mission Assignment Manager (Preparer)	Appropriation code: 70X0702		Date 12/29/12
** FEMA Project Manager/Branch Director (Program Approval)			Date 12/29/12
** Comptroller/Funds Control (Funds Review)			Date 12/29/12
VI. APPROVAL			
*State Approving Official (required for DFA and TA):			Date
**Federal Approving Official (required for all):			Date 12/29/2012
VII. OBLIGATION (FEMA Use Only)			
Mission Assignment Number	4085DR-NY-HHS-10	Amount This Action \$	200,000.00
Amendment Number	02	Cumulative Amount \$	277,000.00
		Date/Time Obligated	12/31/2012
		Initials	ASW
* Signature required for Direct Federal Assistance and Technical Assistance MAs. ** Signature required for all MAs.			

- Coordinated with OSHA Region 2 to provide site hazard assessments and develop site specific training for workers conducting cleanup activities.
- Grantees provided in-classroom & site specific health & safety training to:
 - **> 1600 cleanup workers**
 - **hundreds of hours** of technical assistance, training, & briefings.

On-Site
Hazard
Assessments

Tail gate talks

Briefings





- **Funding**

- Initially grantees permitted to [reprogram](#) funds for [training](#)
- Extra funding from [FEMA](#) through [Mission Assignments](#)
- Awaiting additional funds through the [Disaster Relief Act](#)

Debris Cleanup





NIEHS Disaster Research Response Initiative

- **Elevated recognition NIEHS & role of environmental health in HHS & disaster responses**

- *NIH DDF: \$250K to DIR & \$150K to DERT (NLM 100K)*
- *Hurricane Sandy: HHS/ASPR to DERT ~ \$7M*
- *Ebola Response: CDC to DERT- \$10M*

NIEHS DR2 Investments ~\$1 M
Return: ~\$17.4 M + infrastructure

- **"One-NIEHS" project + engages our centers, other agencies, & community stakeholders**

- ASPR trans-HHS Science Team (SPiRiT) modeled off NIH I-DIG
- HHS looking at "National Research Framework" & funding mechanisms, NSF interested in collaborations
- Energized interactions with various partners (e.g., earth sciences agencies, CDC joint exercise FY16)

- **New infrastructure (i.e., website, repository, protocol) for us/others & platforms for EHS research, community engagement/ "citizen science"**

Learning from Disasters is key in preparing for Disasters.

- **Disaster Research Responder Project (DR2P)**
- **Oil Spill and Hurricane, Houston Ship Channel**
- **Tsunami Catastrophic Event Exercise, Los Angeles, CA,**



Research Responder Training & Education

- **Training & Education** “those involved in research/data collection”
 1. National response plans & HHS mechanisms
 2. Training to use DR2 and other data collections tools, protocols, etc.
 3. Site/Situation Specific Health and Safety Issues
- **Training Exercises** on identified scenarios & issues

Training Exercises

- 2014 Los Angeles & 2015 Houston
- Participants: federal, state, local, academia & community, industry
- Evaluate State & partner research capabilities & DR2 Project concepts and training tools
- Discussion: integration, issues of concern





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Ebola Operations Level Training

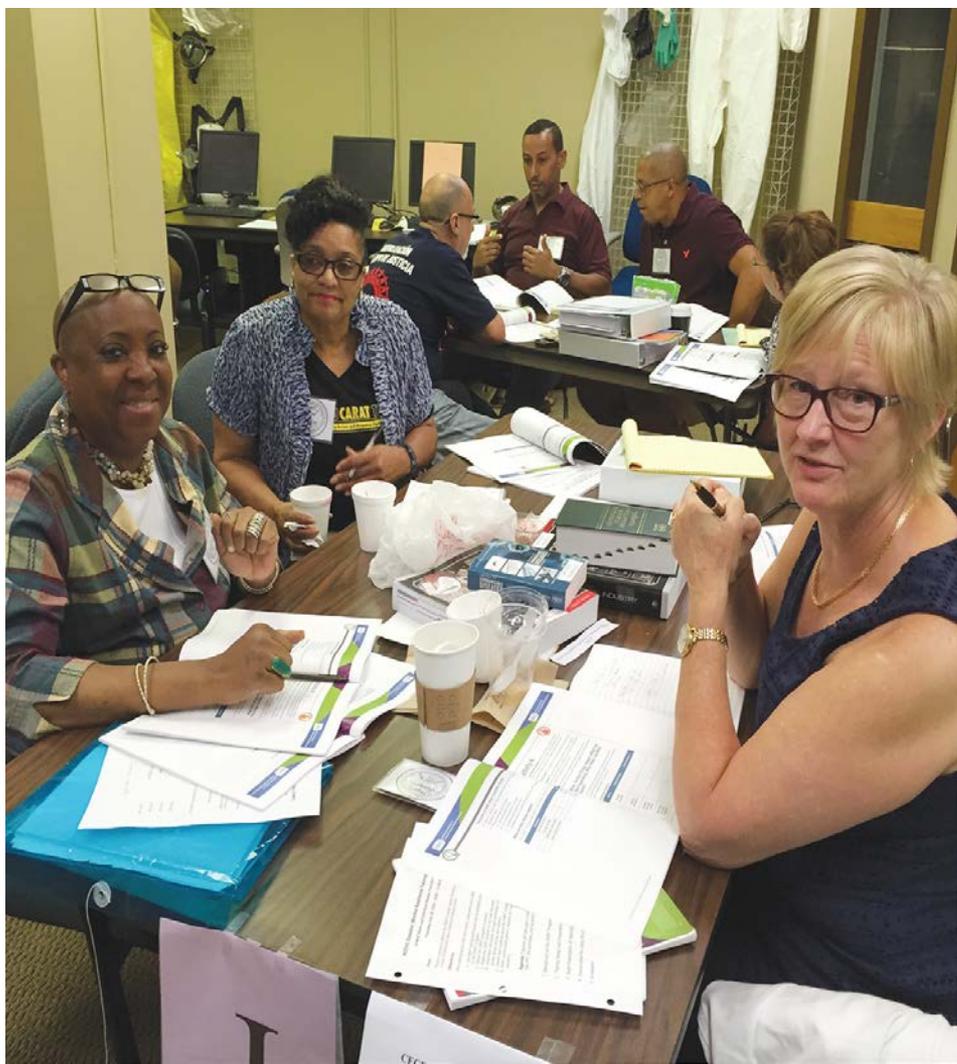




AUGUST 2015

Ebola Biosafety and Infectious Disease Response Training

Needs Assessment and Gap Analysis for the NIEHS Worker Training Program







AWARDEE	Hazardous Waste Worker Training Program (U45)	DOE Nuclear Worker Training Program (UH4)	Environmental Career Worker Training Program (U45)	Hazmat Disaster Preparedness Training Program (U45)	Program Official
Alabama Fire College	X			X	Demia Wright
CPWR - The Center for Construction Research and Training	X	X	X	X	Sharon Beard
Dillard University - Deep South Center for Environmental Justice	X		X		Sharon Beard
International Association of Fire Fighters	X	X		X	Chip Hughes
International Brotherhood of Teamsters - National Labor College Consortium	X	X		X	Chip Hughes
International Chemical Workers Union Council Consortium	X	X		X	Demia Wright
International Union of Operating Engineers		X			Chip Hughes
International Union, United Auto Workers	X				Demia Wright
LIUNA Training and Education Fund	X			X	Chip Hughes
Nova Southeastern University	X			X	Jim Remington
OAI, Inc.	X		X		Sharon Beard
National Partnership for Environmental Technology Education (PETE)	X	X		X	Jim Remington
Rutgers, The State University of New Jersey School of Public Health - New Jersey/New York Hazardous Materials Worker Training Center	X		X	X	Sharon Beard
Steelworker Charitable and Education Organization	X	X	X	X	Chip Hughes
University of California, LA - Western Region Universities Consortium	X		X	X	Sharon Beard
University of Cincinnati - Midwest Consortium for Hazardous Waste Worker Training	X				Demia Wright
University of Massachusetts Lowell - The Northeast Consortium	X			X	Sharon Beard
University of Texas Health Science Center at Houston	X			X	Jim Remington



**WTP Grantee Meeting
Research Triangle Park,
September 28, 2015**

**Demia Wright, MPH
Public Health Educator
Worker Training Program, NIEHS**

3 things about me

1. de-ME-uh

2. “The new Ted”



3. Road to NIEHS Worker Training Program





CDC

**CENTERS FOR DISEASE
CONTROL AND PREVENTION**

**EDWARD R. ROYAL,
CHIEF OF BUREAU**



CDC's Prevention Research Centers (PRC) Program



Photo from [UW PRC](#)



Photo from [USDA](#)



Photo from [PRC Program](#)

Logic Model for the Prevention Research Centers Program

Last Revision
July 14, 2008 (4)

at the Centers for Disease Control and Prevention (CDC)

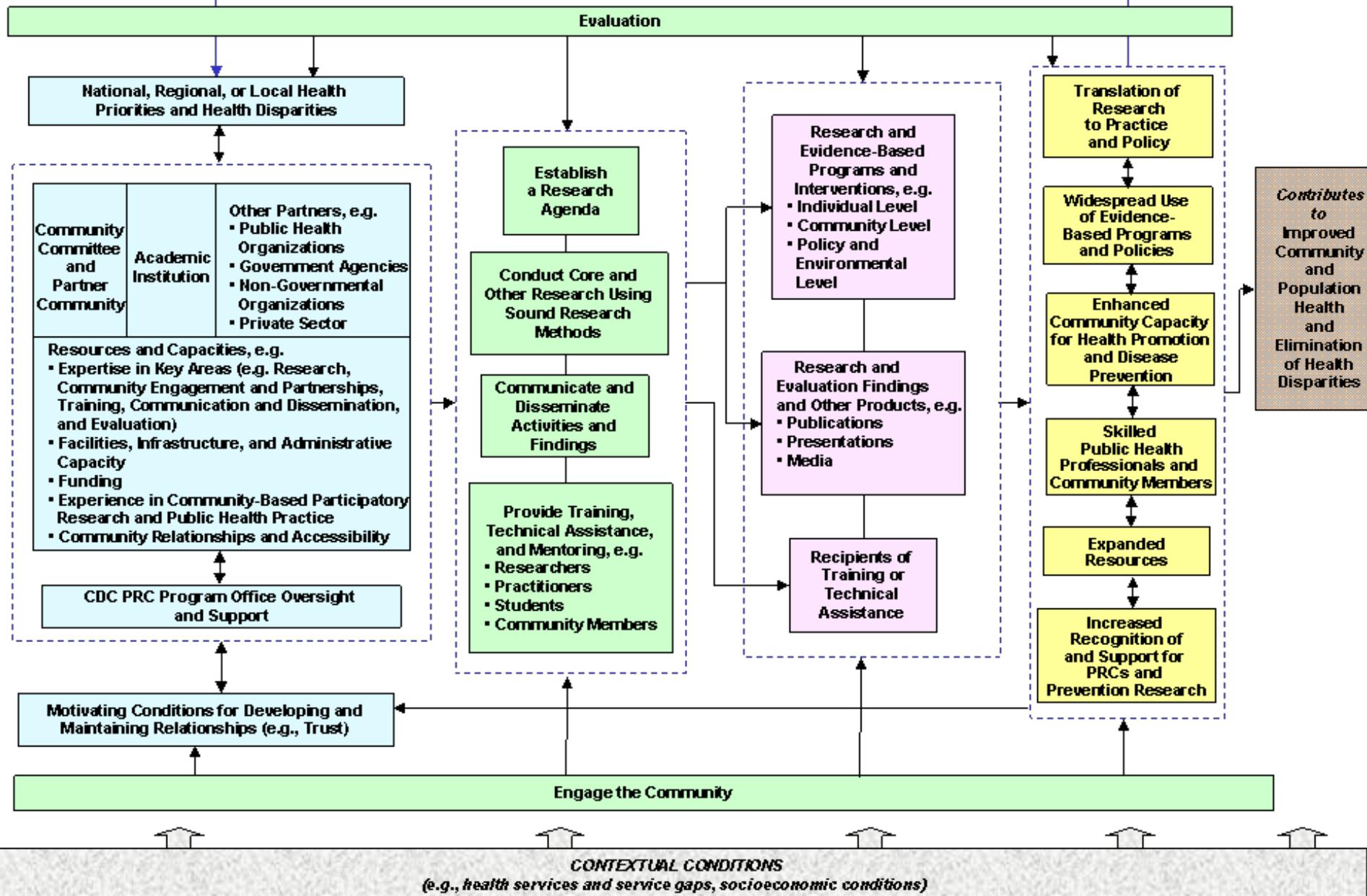
INPUTS

ACTIVITIES

OUTPUTS

OUTCOMES

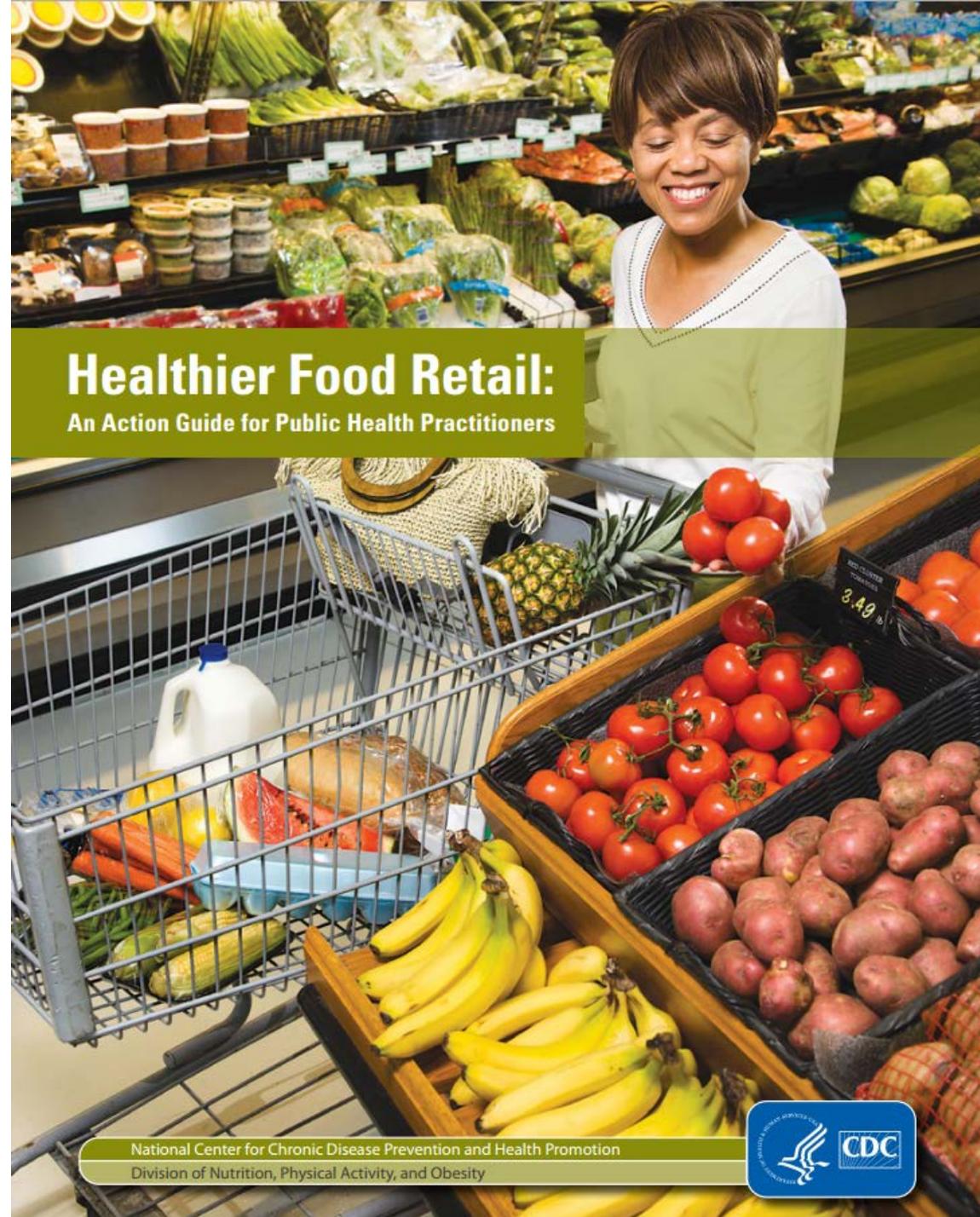
IMPACT



CDC's Division of Nutrition, Physical Activity, and Obesity (DNPAO)



Guidance & Technical Assistance to Practitioners



Healthier Food Retail:
An Action Guide for Public Health Practitioners

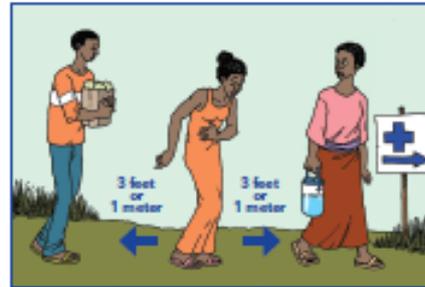
CDC's Ebola Response 2014



**THERE IS STRENGTH IN UNITY!
LET US HELP ONE ANOTHER FIGHT AGAINST EBOLA!**

Emergency
Operations
Center

Health
Promotion
Team



Help your family



Help your neighbors



Help your community



When we help each other we
can save lives! Let's help one
another fight Ebola!

There is Strength in Unity!

Public Health Educator background...

WORKSHOP REPORT

 **NIEHS**
National Institute of Environmental Health Sciences

Worker Education and Training Program

Minimum Health and Safety Training Criteria:

GUIDANCE FOR

Hazardous Waste Operations and Emergency Response (HAZWOPER)
HAZWOPER-Supporting and All-Hazards Disaster
Prevention, Preparedness, & Response



Workshop — March 30-April 1,
and Health Training
202.331.0060 • [www.wetp.org](#)

And lots to learn about the WTP!



Demia Wright, MPH
Public Health Educator
Worker Training Program
NIEHS

Demia.Wright@nih.gov

919-316-4638



Hazardous Waste Worker Training Program:

- Provides model occupational safety and health training for workers who are or may be engaged in activities related to hazardous waste removal or containment or chemical emergency response.
- Develops specific tools for preparing workers for a wide variety of hazards in a wide variety of industries and high-risk operations.
- Closely coordinate training with the national Superfund program and other local, state and federal environmental cleanup and emergency response operations.



Environmental Careers Worker Training Program:

- Focused on increasing the number of underrepresented minorities by delivering comprehensive training to disadvantaged and underserved individuals;
- Provide remediation education, life skills, mentoring, job readiness, occupational health disparities and environmental justice training; and
- Prepare and place them for employment in the fields of environmental restoration, construction, hazardous materials and waste management, containment and removal, and emergency response.

Hazmat Disaster Preparedness Training Program:

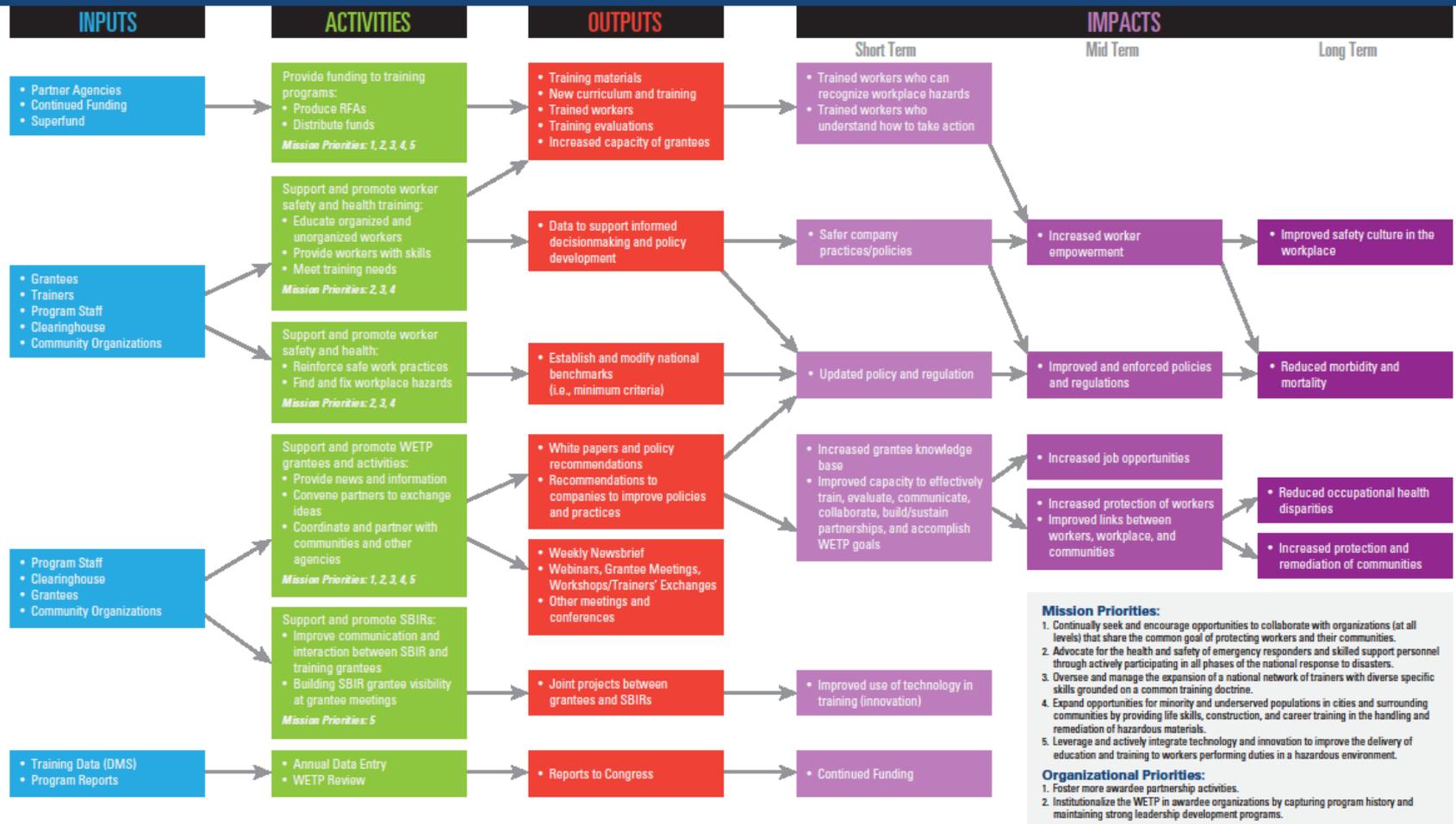
- Address national worker protection and preparedness issues.
- Develop specific training and specific tools for preparing workers for response to future natural and manmade disasters in a wide variety of facilities and high-risk operations.
- Closely coordinate training with the activities of the Department of Homeland Security (DHS), OSHA, FEMA, ACE, and related agencies in the DHHS and other involved local, state and federal entities.
- Response efforts include September 11, Hurricanes Katrina, Rita, Sandy, California wildfires, Deepwater Horizon Gulf Oil Spill, etc.

DOE/NIEHS Worker Training Program:

- NATIONAL DEFENSE AUTHORIZATION ACT: Section 3131 created the Worker Training Program in 1993 for NIEHS and DOE as a partnership.
- Supported through an Interagency Agreement with DOE to develop model worker safety and health training programs at DOE facilities.
- Support worker safety training for the purpose of DOE site clean-up activities, waste management and hazardous materials response.



WETP Logic Model



- Mission Priorities:**
- Continually seek and encourage opportunities to collaborate with organizations (at all levels) that share the common goal of protecting workers and their communities.
 - Advocate for the health and safety of emergency responders and skilled support personnel through actively participating in all phases of the national response to disasters.
 - Oversee and manage the expansion of a national network of trainers with diverse specific skills grounded on a common training doctrine.
 - Expand opportunities for minority and underserved populations in cities and surrounding communities by providing life skills, construction, and career training in the handling and remediation of hazardous materials.
 - Leverage and actively integrate technology and innovation to improve the delivery of education and training to workers performing duties in a hazardous environment.
- Organizational Priorities:**
- Foster more awardee partnership activities.
 - Institutionalize the WETP in awardee organizations by capturing program history and maintaining strong leadership development programs.

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File Print E-mail Burn Open

- A. DOE *ONGOING CAUCUS*
- B. GREEN BTGJs
where are the jobs?
- C. Supplements
CARRY OVER
OFFSET
- D. DON
"WE ARE INFRASTRUCTURE"
- E. QUESTIONS
CONTINUING EDUCATION UNITS

JFK EPA OSHA

Inbox - Hughes, Chip (NIH/NIE...)

2:23 PM 9/26/2015