

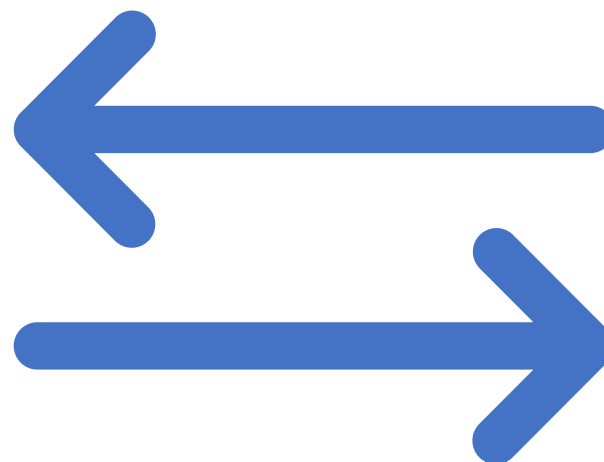


Looking back,
looking forward:
How did we get
here and where
are we going?

Mitchel A. Rosen

NIEHS Worker Training Program Fall
Workshop

October 21, 2022



Looking back




ENVIRONMENTAL UNIONS

Labor and the Superfund

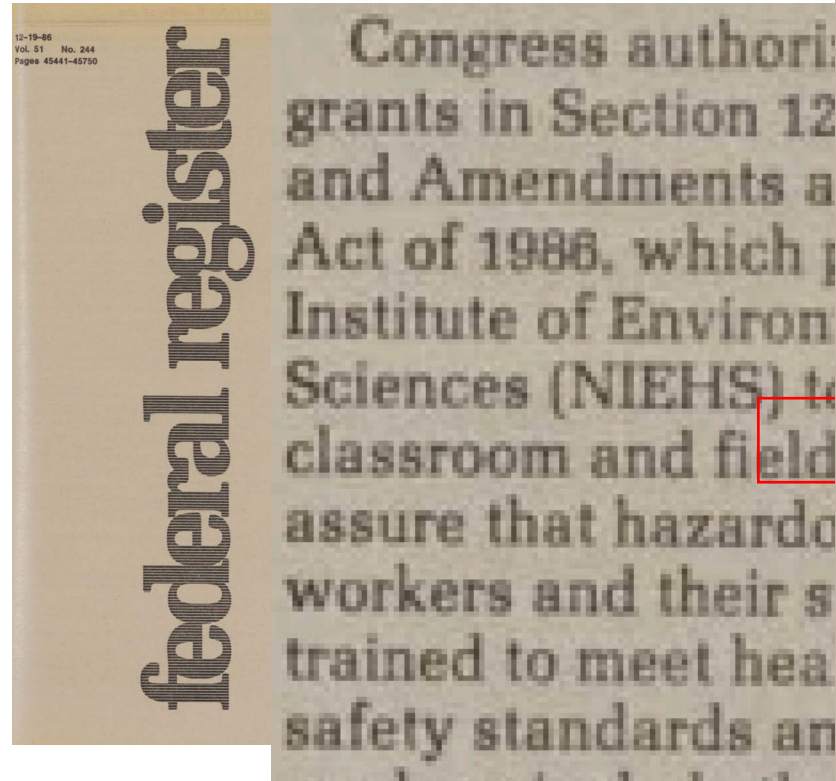
Craig Slatin



WORK, HEALTH, AND ENVIRONMENT SERIES
Series Editors: Charles Levenstein, Robert Farrant, and John Wooding

 BAYWOOD PUBLISHING COMPANY, INC.
AMITYVILLE, NEW YORK

The beginning



II. Description of the NIEHS Grants Program

The NIEHS hazardous waste worker protection program seeks grant applications from qualified nonprofit organizations to develop and administer health and safety education programs for hazardous waste workers. Target populations for this training are workers and supervisors engaged in:

(1) Waste handling and processing at active and inactive hazardous substance treatment, storage and disposal facilities.

(2) Clean-up, removal, containment or remedial actions at waste sites.

(3) Hazardous substance emergency response.

(4) Hazardous substance disposal site risk assessment and investigation, remedial actions or clean-up by State and local personnel.

(5) Transportation of hazardous wastes.

How is HAZWOPER training defined and applied?

OSHA

- 29 CFR 1910.120
- Defined scope and populations

- [1910.120\(a\)\(1\)\(i\)](#)Clean-up operations required by a governmental body....
- 1910.120(a)(1)(ii)Corrective actions involving clean-up operations at sites covered by the RCRA...
- [1910.120\(a\)\(1\)\(iii\)](#)Voluntary clean-up operations at ... uncontrolled hazardous waste sites;
- [1910.120\(a\)\(1\)\(iv\)](#)Operations involving hazardous wastes that are conducted TSD facilities ... ; and
- [1910.120\(a\)\(1\)\(v\)](#)Emergency response operations ...

How is HAZWOPER training defined and applied?

NIEHS WTP

- Baseline training
- Broad application

- Initial focus on hazardous waste, hazardous materials transportation, emergency response
- Emphasize evaluation and quality control (outcome-oriented evaluation objectives)
- Address underrepresented workers
- Organize greater outreach to employers
- Ensure materials are appropriate for widespread mixed training audiences
- Stress the importance of "solid industrial hygiene and toxicology content in all training"

How is HAZWOPER training defined and applied?

NIEHS WTP

- Baseline Training
- Broad Application

National Institutes of Health

Availability of Request for Applications

[RFA Available: NIH-NIEHS-ES-92-01]

RFA TITLE: Hazardous Materials and Waste Worker Health and Safety Training

National Institute of Environmental Health Sciences

Letter of Intent Receipt Date:
December 24, 1991.

Application Receipt Date: January 24, 1992.

I. Purpose

The National Institute of Environmental Health Sciences (NIEHS) invites applications for cooperative agreements for training and education of workers engaged in activities related to hazardous materials and waste generation, removal, containment, transportation and emergency response.

The major objective of this solicitation 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 or emergency response. A variety of sites,

V. Training Objectives

Training programs shall satisfy minimum requirements for hazardous waste workers and emergency responders as specified in Federal Occupational Safety and Health Administration and other regulations which have been or may be

promulgated. Training programs shall also meet the minimum requirements specified in the Minimum Criteria for Worker Health and Safety Training for Hazardous Waste Operations and Emergency Response, published April, 1990 as a result of an NIEHS-sponsored

multi-state and nationwide coverage to reach wider worker populations will be given preference in review and funding. Applications will not be considered that cover municipalities or other jurisdictions covering less than two states. Programs are encouraged to develop plans to become self sufficient.

Program proposals should include plans for reaching underserved workers in the proposed target populations especially those disadvantaged in education, culture, or language or limited in literacy.

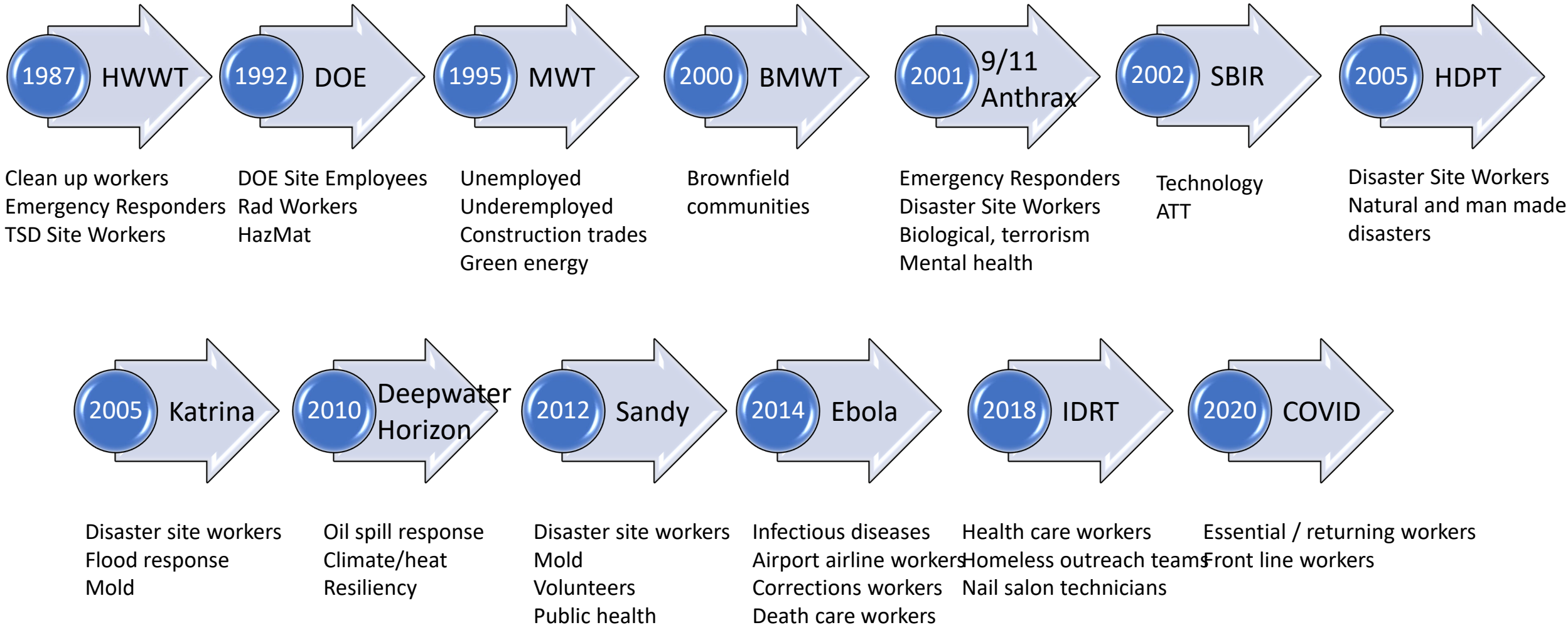
How is HAZWOPER training defined and applied?

NIEHS WTP

- Baseline training
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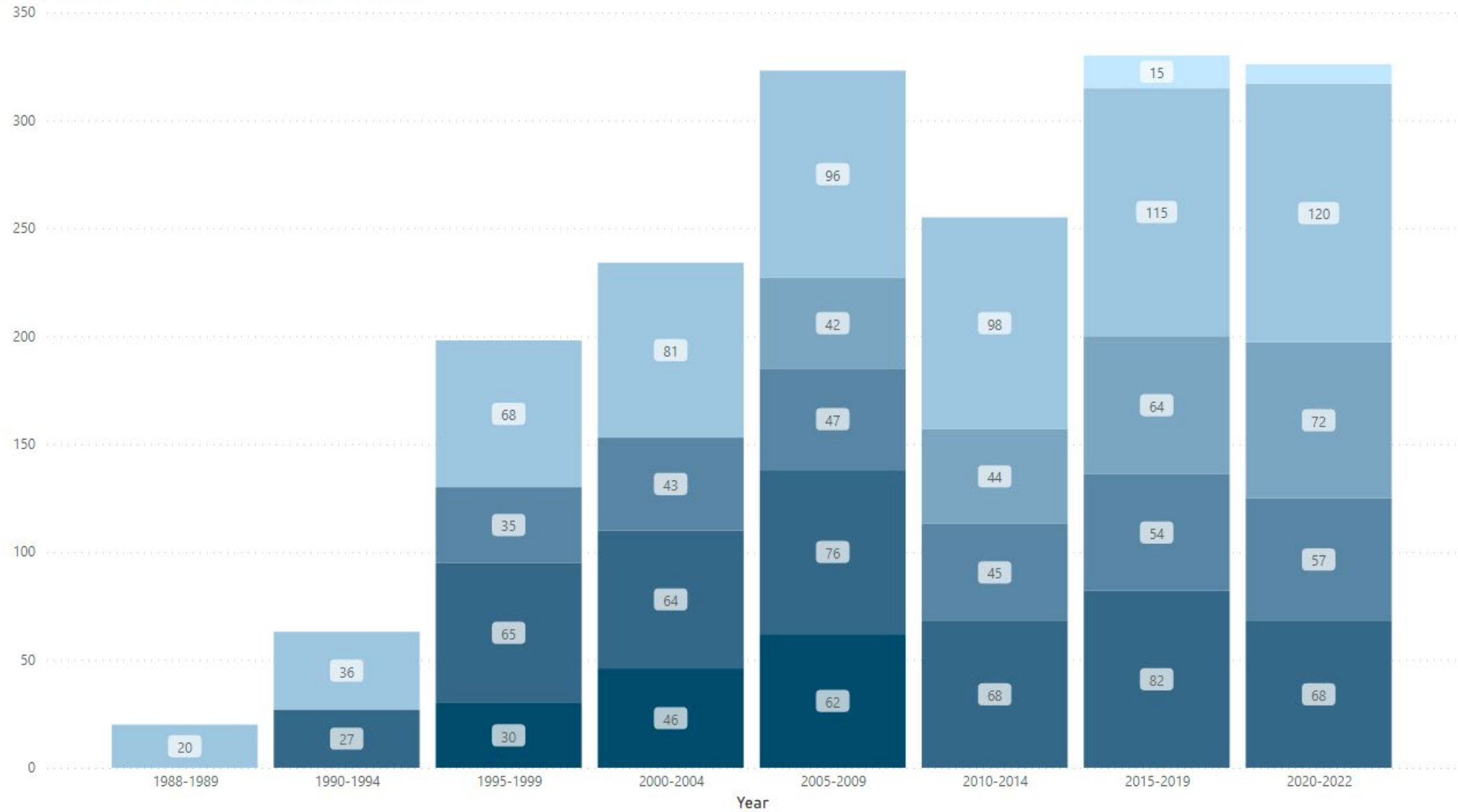
- Continually seek and encourage opportunities to collaborate
- Advocate for the health and safety of emergency responders and skilled support personnel
- Oversee and manage the expansion of a national network of trainers with diverse specific skills ...
- Expand opportunities for minority and underserved populations ... by providing life skills, construction, and career training in the handling and remediation of hazardous materials.
- Leverage and actively integrate technology and innovation

WTP Major Milestones and Audiences



Course growth

Program ● BMWT ● DOE ● ECWT ● HDPT ● HWWT ● IDRT



NIEHS WETP 2007 Fall Conference: The Future of Hazardous Materials Cleanup & Training

Chip Hughes

- Strategic Concerns for WETP include broadening the mission statement
- How to make partnerships

Tom McQuiston

- How to increase the dialogue and build bridges to other groups?
- Transition from current leaders to leaders of the future?
- Training needs and resources for immigrant workers

Don Elisberg

- Need to look at other groups that need training for “everyday” emergencies
- Need to build on 20 years of experiences

NIEHS WETP 2007 Fall Conference: The Future of Hazardous Materials Cleanup & Training

Pete Stafford

- Discussed the changing demographics in construction; Latino workers are now 23 percent of the construction workforce
- Global warming is driving green construction where one looks at energy consumed during the building process

Mark Catlin

- Hospital workers have a need for training and over the next 5 years health care training will grow

Doug Feil

- Issues with providing training for older vs. younger workers
- Blended training with computer and hands-on learning

Approaches



IN PERSON
TRAINING



OTHER TYPES
OF TRAINING



BOOKLETS



WEBINARS/
SYNCHRONOUS
ONLINE



ASYNCHRONOUS
ONLINE



IN PERSON
TRAINING



OTHER TYPES
OF TRAINING



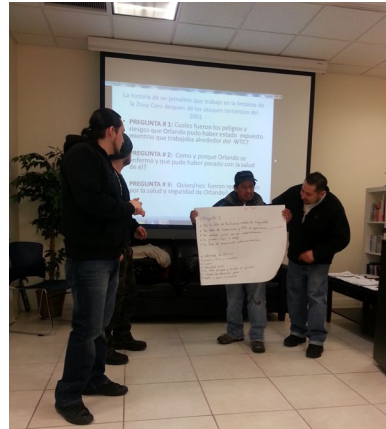
BOOKLETS



WEBINARS/
SYNCHRONOUS
ONLINE



ASYNCHRONOUS
ONLINE





IN PERSON TRAINING



OTHER TYPES OF TRAINING



BOOKLETS



WEBINARS



ASYNCHRONOUS ONLINE



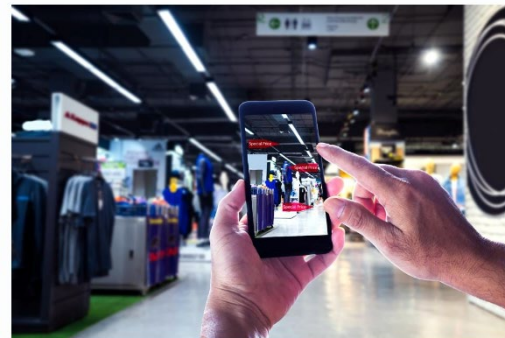
The Benefits Of Augmented Reality For Employee Training



Lorne Fade Forbes Councils Member
Forbes Business Council COUNCIL POST | Membership (Fee-Based)

Feb 12, 2021, 08:00am EST

Co-Founder and COO at VR Vision Inc an immersive technology group that is developing virtual and augmented reality solutions for the future.



GETTY



HAZMAT VR - A Decision Making Scenario

Source AR Article: <https://www.forbes.com/sites/forbesbusinesscouncil/2021/02/12/the-benefits-of-augmented-reality-for-employee-training/?sh=5542d52566d6>

Source HAZMAT VR: <https://metamediausa.com/virtual-reality-samples/>



IN PERSON
TRAINING



OTHER TYPES
OF TRAINING



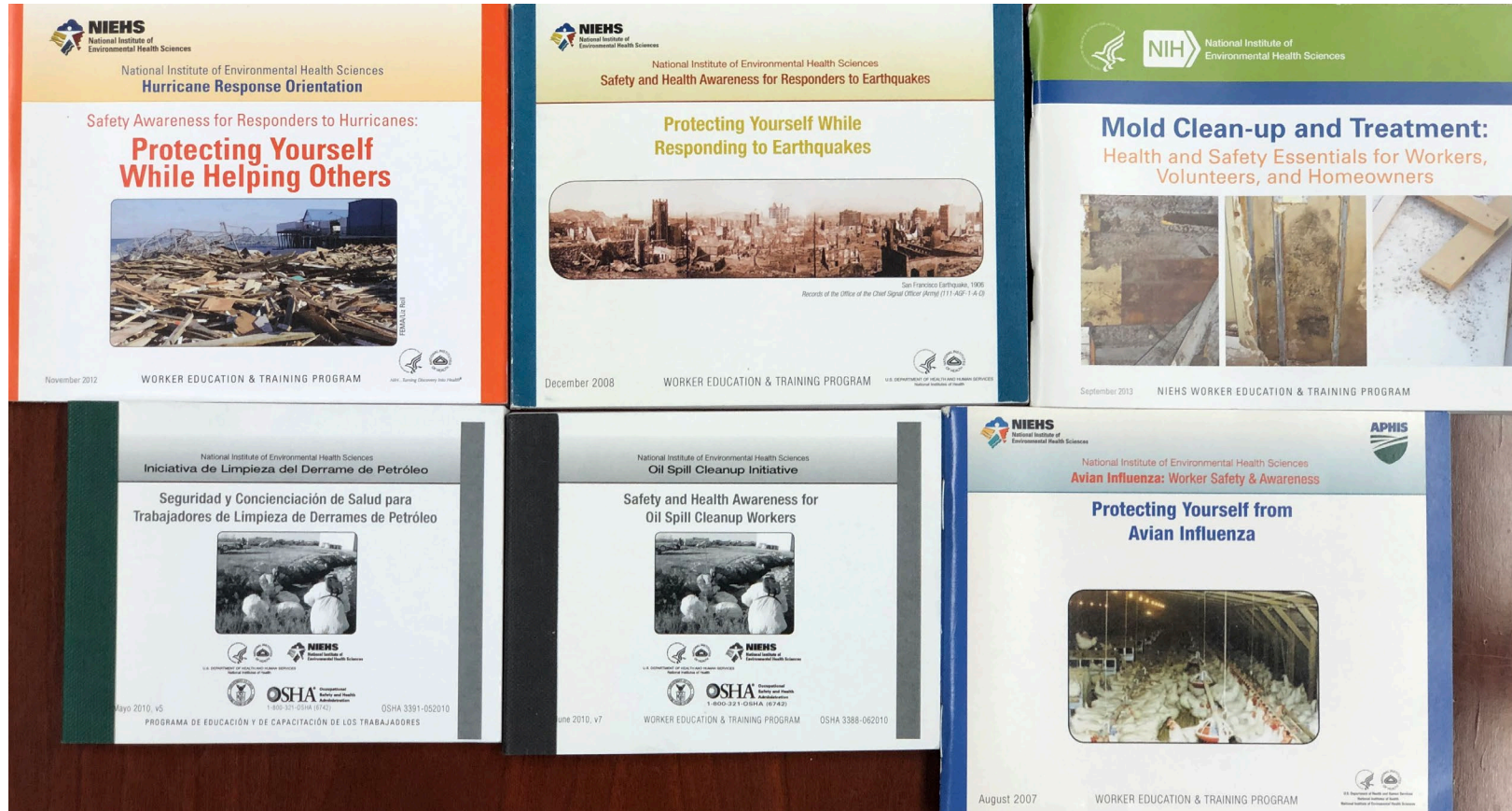
BOOKLETS



WEBINARS/
SYNCHRONOUS
ONLINE



ASYNCHRONOUS
ONLINE





IN PERSON TRAINING



OTHER TYPES OF TRAINING



BOOKLETS



WEBINARS/
SYNCHRONOUS
ONLINE



ASYNCHRONOUS
ONLINE

Microaggression Vignettes

What is the hidden message being sent?

From: <https://www.youtube.com/watch?v=0588BK6SDXc>

Participants: Michael Rosen, Denis Croxon, Brian Corbett, Tony Valente, Gina Giobano, William Gonyea, Shanel Lewis (Husker), Kirby Kungu, Alejandro Ruiz, Eliza Zylbershlag (Husker), John, Philip Taylor, Douglas Penner, Robert Chonka, Thomas Butler, Margaret Neville, Maria Despain, Husein Mohammed, Lorie Marston, Michael Zachowski, Alejandro Alvarez, Diego Suarez.

LOS IMPLEMENTOS DESTINADOS A PENETRAR EN LA PIEL O EN LOS POROS DEBERÁN SER DE UN SOLO USO DESECHABLES O ESTERILIZARLOS.

REUTILIZABLES

Participants: Monica Cordero, Purdy, Andreea Leung, Emma Garcia.



IN PERSON
TRAINING



OTHER TYPES
OF TRAINING



BOOKLETS



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OPIOIDS IN THE WORKPLACE AWARENESS

START COURSE

BEFORE YOU BEGIN

☰ Course Information and Learning Objectives

☰ Pre-Quiz

BACKGROUND AND INTRODUCTION

☰ What is an Opioid?

☰ Background on the Epidemic

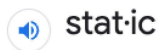
<https://go.rutgers.edu/OpioidTraining>

Model program

- What does it mean to be a model program?
- How does a model program evolve?
- What evolution needs to happen for us to remain THE model program?

MINIMUM HEALTH AND SAFETY TRAINING CRITERIA
Guidance for Hazardous Waste Operations
and Emergency Response (HAZWOPER) and
HAZWOPER-Supporting Training





stat·ic

/ˈstɑdɪk/

See definitions in:

All Computing Physics Telecommunications

adjective

adjective: **static**

1. lacking in movement, action, or change, especially in a way viewed as undesirable or uninteresting.
"demand has grown in what was a fairly static market"



in·no·va·tive

/ˈɪnəˌvɑdɪv/

adjective

- (of a product, idea, etc.) featuring new methods; advanced and original.
"innovative designs"
- (of a person) introducing new ideas; original and creative in thinking.
"an innovative thinker"



dy·nam·ic

/dɪˈnɑmɪk/

See definitions in:

All Philosophy Physics Linguistics Technology Music

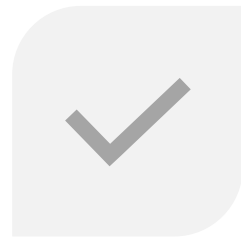
adjective

1. (of a process or system) characterized by constant change, activity, or progress.
"a dynamic economy"
2. (of a person) positive in attitude and full of energy and new ideas.
"she's dynamic and determined"

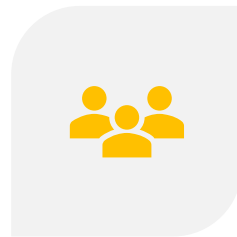
Guiding principles



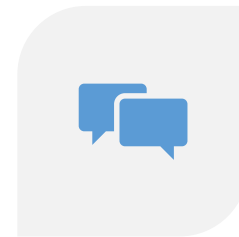
LEARNER CENTERED



INTERACTIVE
PARTICIPATORY



PEER TRAINERS



EVALUATION



CONTINUOUS
PROCESS
IMPROVEMENT

Looking forward

- Follow our guiding principles
- Train in absence of regulations
- Identify training topics to meet needs
 - climate change, climate impacts, climate justice
- Focus on preparedness (emerging hazards)
- Expand audiences reached
- Expand efforts in environmental justice, equity, language justice
- Focus on developing new trainers and on ageing workforce
- Assess integration of technology
- Reimagine training





Atlantic Center for Occupational Health and Safety Training

Rutgers School of Public Health
Make the Road New York
Migrant Clinicians Network
New Jersey State Police
New York City District Council of Carpenters
New York Committee for Occupational Safety and Health
New York University College of Global Public Health
Universidad Ana G. Mendez
University at Buffalo
World Cares Center

New Jersey Work Environment Council
Northeast New York COSH
Rutgers Global Health Institute

Thank you

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