

Curricula Development

NIEHS Worker Training Program Grantee Meeting
May 17, 2022

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MIDWEST CONSORTIUM



13 Training Centers

- Labor-affiliated programs
- Three major universities
- Two community colleges
- An historically black university
- An environmental justice and career training organization
- An affiliate of a national youth training organization
- A tribal nation
- A low wage/immigrant worker training organization
- An environmental education organization

The logo for the Midwest Consortium for Hazardous Waste Worker Training (MWC) features the letters 'MWC' in a large, bold, maroon font. To the right of the text is a yellow map of the Midwest region, including parts of the United States and Canada, with several blue dots indicating training center locations. Below the map, the text 'MIDWEST CONSORTIUM FOR HAZARDOUS WASTE WORKER TRAINING' is written in a smaller, maroon font, and the website 'mwc.umn.edu' is listed in a smaller, maroon font.

MWC

MIDWEST CONSORTIUM
FOR HAZARDOUS WASTE
WORKER TRAINING

mwc.umn.edu

Diverse Curricula

- HAZWOPER
- First Responder
- Environmental Topics
- Community Preparedness
- Opioids

Courses

 24AMN: 24 HOUR ANHYDROUS AMMONIA	 SAW HAZWOPER AWARENESS: OSHA AND HAZWOPER	 SAW HAZWOPER AWARENESS: OUTLINE	 SAW-HAZWOPER AWARENESS: COMMUNITY PROGRAM
 40H: HAZARDOUS WASTE SITE WORKER	 40T: INDUSTRIAL EMERGENCY RESPONSE - TECHNICIAN LEVEL	 8A1: INDUSTRIAL RESPONDER (AWARENESS)	 8AM: MUNICIPAL RESPONDER (AWARENESS)
 8CS: CONFINED SPACE RESCUE REFRESHER OUTLINE	 8HRM: MODULAR SITE WORKER REFRESHER	 8HRP: SITE WORKER PERFORMANCE MEASURES	 8TRM: TREATMENT, STORAGE AND DISPOSAL REFRESHER MODULES
 CSR: CONFINED SPACE RESCUE	 COVID-19 AWARENESS FOR COMMUNITIES	 COVID-19 EMERGENCY RESPONSE DRILL	 DRL: CONDUCT AND EVALUATE A DRILL
 ERRM: 8-HOUR MODULAR EMERGENCY RESPONSE REFRESHER	 ERRP: INDUSTRIAL EMERGENCY RESPONSE REFRESHER - PERFORMANCE	 EXP: EXPOSURE MONITORING	 FCP: FAMILY AND COMMUNITY EMERGENCY PREPAREDNESS
 Hazard Communication HCS 2012	 HOS: HOSPITAL DECONTAMINATION	 IOS OUTLINE	 IER: INDUSTRIAL EMERGENCY RESPONSE - OPERATIONS LEVEL

How develop materials that are usable by many Training Centers?

- All Training Centers have opportunities for input
- Content designed to meet course requirements while preserving freedom of the trainer/training center
 - Example – each section lists Minimum Content Requirements

Minimum Content Requirements - Example from 40 Hour HAZWOPER PPE Module

Minimum Content Requirements

- Selection - when respiratory protective equipment should be used and what type
- Use - respirator fit, medical fitness required
- Care and maintenance of respirators
- Donning and doffing SCBAs and APRs
- Respiratory Protection Workshop

Written Curriculum Development Procedure

- ADDIE Process (Analysis, Design, Development, Implementation, Evaluation)
- Minimum Criteria (target audience, learning objectives, evaluation, etc)
- Required Components for participant and trainer materials
- Review and Approval Process

Facilitator Guide Components

Introduction

- Acknowledgement/Warning/Disclaimer
- Table of Contents
- Course Overview
- Sample agenda(s) for program
- Lesson Plan formats
- Instructional Resources
- Presentation guidance
- Exercise guidance

Standard format for each module

- Time Requirement
- Number of facilitators (consistent with Minimum Criteria)
- Materials needed
- Chapter/module/session Objectives
- Suggested Facilitator Preparation including:
 - Content knowledge/review of material
 - Technology pre-check and back-up plan
- Minimum Content Requirements
- Questions you may be asked
- Presentation of the Session
- Summary

Facilitator Follow-up

Introduction to Ammonia Emergency Response

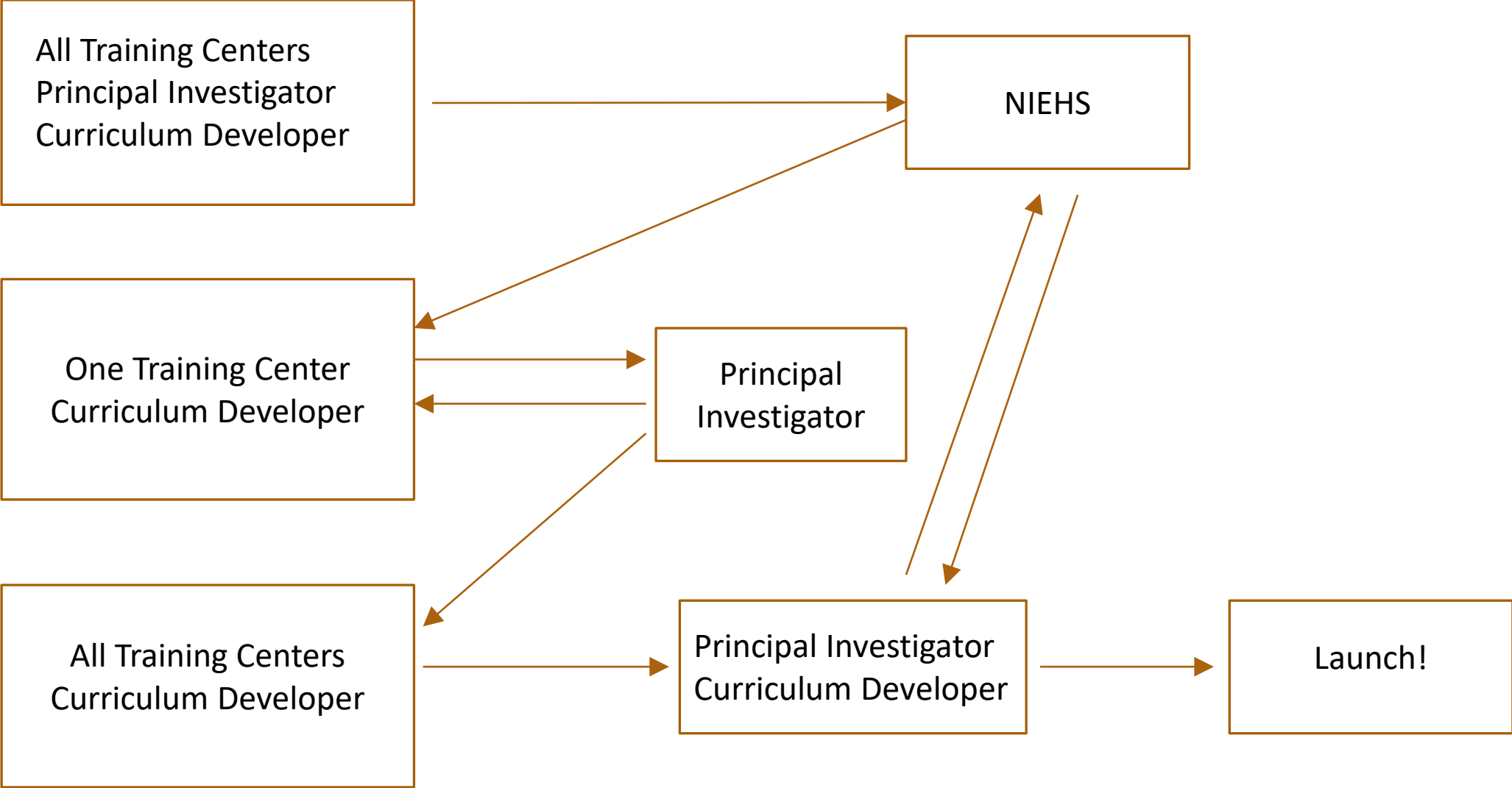
Time Requirement: 30 minutes

Number of Facilitators: 1 or more, consistent with ratio shown in the Minimum Criteria

Materials

- Student materials (Participant Guide and Exercise Manual)
- Copies of HAZWOPER or access to the electronic version
<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.120>
- Copies of PSM or access to the electronic version
<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.119>
- For definition of 'hazardous substance': section 103(14) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (42 U.S.C. 9601); U.S. DOT 49 CFR 172.101 and appendices; 40 CFR 261.3; 49 CFR 171.8.
- White Board, easel and easel paper, or chalkboard
- Chalk or marker

Development Process



Recent changes

- Increased virtual learning has prompted a shift toward PowerPoints, which can be used in-person or online
- Concern with maintaining hands-on while using PowerPoints
- Interaction/exercises are built into the PowerPoints
- PowerPoints include all components of paper participant guide (resources, acknowledgements etc) so can be printed as a participant guide for in-person training (3 slide handout)

Final Thoughts

- Received feedback at last competitive renewal that some materials appeared out-of-date - we now have year-by-year plan for development/updating
- Curricula is a priority – on agenda at all weekly administrative & monthly steering committee meetings