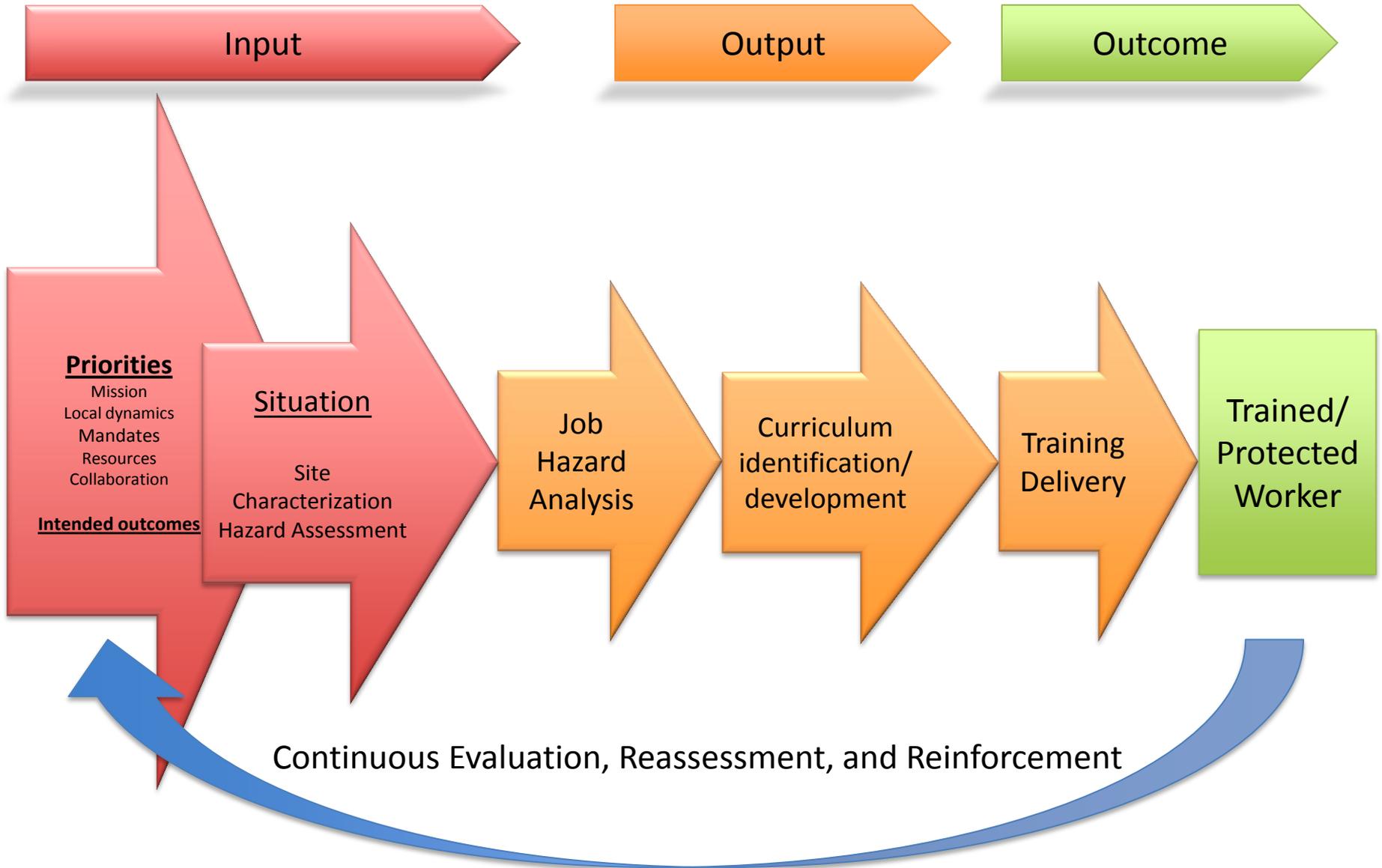


Deepwater Horizon Response Incident Specific Training



Priorities



Priorities

Mission
Local dynamics
Mandates
Resources
Collaboration

- Protect the Public
- Protect the Responder/Worker
- Mitigate further oil release
- Limit environmental exposure
- Decontaminate exposed environment
- Reduce impact to local economy
- Conduct activities in accordance with local, state, and federal laws
- Utilize appropriate resources
- Utilize local resources
- Ensure all stakeholders at all levels are involved and aware of planned activities

Intended outcome

Rapid and efficient mitigation of continued environmental contamination while ensuring minimum impact to public health

Situation



Situation

Site Characterization
Hazard Assessment

- Identification of hazards created as a result of a disaster such as an explosion and spill in all environments (water, land, air) at various impacted locations
- Identify occupational, environmental health, and security hazards for workers involved in response activities
- Identify public health hazards

Job Hazard/Safety Analysis (JHA/JSA)



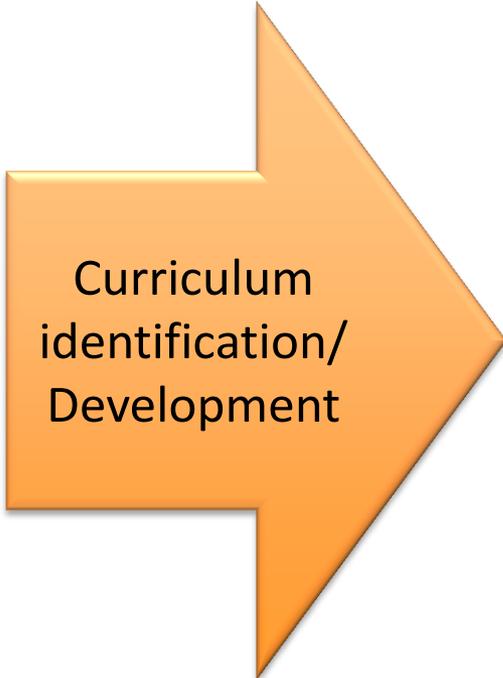
Job
Hazard/Safety
Analysis

- Identify tasks required to respond to various phases of disaster activity
- Identify hazards associated with each task
- Identify hazard mitigation options for each task
- Identify worker protection needed (If unable to mitigate the hazard)
- Identify level of technical expertise required based on task

General PPE Matrix

Task Number	Cleanup Technique	Description & Requirements	Hard Hat	Safety Glasses	Rubber Boots	Nitrile 25-40 mil Heavy Use	Nitrile 11-26 mil Light Use	Steel-Toe Leather	Snale Boots	DuPont ProShield 1	Tychem QC or SL or similar	Tyvek	Slicker Suits (rain)	PFD	Hearing Protection	Leather Gloves	Face Shield	Safety Goggles	Kovlar Sleeves	Respirator w/ VOC and P100 Filters	FRIC DuPont Linerwear Nomex Disposable	Chemi Waders Rip Boots	Life Vest or life jacket (USCG approved)	Boat or deck shoes with traction	Wet suit or shirt and long pants or overalls	On Shore Activity	Near Shore Activity	Off shore activity	Personal Air Sample	Result	Direct Read Sample	Result	Bulk Sample	Result	Area Sample	Result	Noise sample	Result
#1	Manual Scraping (Beach Clean Up)																																					
#2	Sump and pump/vacuum																																					
#3	Manual removal of oiled materials																																					
#4	Low pressure flushing (Decon Operations)																																					
#5	Manual sorbent application (Beach Clean Up)																																					
#6	Manual cutting																																					
#7	In Situ Burning																																					
#8	Vacuum trucks, vacuum pumps or portable skimmer																																					
#9	Oil Map																																					
#10	Recovery of oil from ground water																																					
#11	Wash / Non-Sho Cleanup Operations																																					
#12	Skimming Operations (w/bo)																																					
#13	High Pressure Cleaning (Decon Operations)																																					
#14	Manual Removal of oil or debris (if other oil dispersant is present)																																					
#15	On Shore Support (shallow water jetties operations)																																					
#16	A Flot Support (shallow water jetties operations (NOT FOR ANCHOR DEPLOYMENT))																																					
#17	Rescued oil/w																																					
#18	Portable floating																																					
#19	Optional if it's in																																					
#20	Based on m...																																					
#21	Rescued boom																																					
#22	NA - Not Applicable																																					

Curriculum Identification/Development



Curriculum identification/ Development

- Identify training needs based on JHA task requirement
- Identify local, state, federal training requirement for tasks to be performed
- Identify existing training that meets regulatory and JHA requirements (OSHA, NIEHS, CDC, NIOSH, etc.)
- Develop site specific hazard awareness curriculum to be provided in addition to other required training
- Utilize Analysis, Design, Development, Implementation, and Evaluation (ADDIE) model
- Obtain approval from Incident Command and appropriate stakeholders

HSE Orientation & Training Requirements

Audience and Work Scope	Purpose	Course Info.	Prerequisites
<p>Volunteers - Non-contaminated beach cleanup</p> <p>Pre-cleaning of beaches – pick up trash and debris</p>	<p>Ensure anyone working under BP coordination has an understanding of BP HSE expectations. This training is being delivered at worksites prior to volunteers being deployed.</p>	<p><u>Module 1</u> - BP HSE Basic Orientation</p> <p>Instructor led (Approx. 30-45 min.)</p>	<p>None</p>
<p>Contractors - Conducting work on behalf of BP in the field</p> <p>Any labor/work <u>not</u> involving spill contaminated materials</p>	<p>Provides BP contractors with a basic HSE Safety Orientation and expectations of contractors. This builds on Module 1 with a focus on pre-job safety meetings, job planning, risk identification, and the right to 'stop the job' if things appear unsafe.</p>	<p><u>Module 2</u> – Contractor Expectations (Includes Module 1)</p> <p>Instructor led (Approx. 1.5 hours)</p>	<p>None</p>
<p>Contractors - Post Emergency</p> <p>Conducting work on behalf of BP cleaning up spill contaminated shoreline and vessel operations</p>	<p>Prepare individuals for the hazards in the contaminated shoreline environment. This is a 4 hour course that meets the recommendations of OSHA CPL 2-2.5.1 for Oil Spill Response-Single Event</p>	<p><u>Module 3</u> - Post-Emergency Spilled Oil Cleanup (Includes materials from Modules 1 & 2)</p> <p>Instructor led – 4 Hours</p>	<p>None</p>
<p>Contract Supervision of those who will have direct contact with petroleum for shoreline and vessel operations</p> <p>Direction and management of workers performing spill related cleanup activities</p>	<p>BP will not be supporting training in this area.</p>	<p><u>Module 2</u> – Contractor Expectations (Includes Module 1)</p> <p>Instructor led (Approx. 1.5 hours)</p>	<p>40 hour HAZWOPER Instructor led and hands-on</p> <p>NOT AVAILABLE THROUGH BP</p>

May 7, 2010

Training Delivery



- Identify target populations to be trained
- Identify delivery venues (instructor led, computer based, train-the-trainer)
- Identify unique population and their needs (language, cultural, education level)
- For instructor led:
 - Identify appropriate venue
 - Identify appropriate instructor
 - Translator or native speaker

Trained Worker

Trained/
Protected
Worker

- Demonstrates understanding of training provided by successfully passing written evaluation or demonstrates proficiency
- Knowledgeable about potential hazards and mitigation strategy based on task to be performed
- Minimizes potential exposure to hazards to themselves, coworkers, and public
- Empowered to identify and mitigate, based on level of training, hazards while performing tasks

Continuous Evaluation and Reassessment

- Change in site characterization or hazards will necessitate update to training
- Injury and illness necessitates additional (reinforcement) or change in training
- Observation of responders identifies requirement for additional training
- Reevaluation of tasks or changes to tasks necessitates additional training
- Change in regulatory requirements necessitates additional training



Continuous Evaluation, Reassessment, and Reinforcement

Deepwater Horizon Response Incident Specific Training

