

## *U.S. Disaster Training Development and Delivery Workshop*

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## Topics

- Introduction
- Background of US government emergency management administration and training policy
- Training course development process
- Training course delivery process
- Review of sample courses
- Challenges and recommendations

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# Introduction

- University of Hawaii faculty/administrator for 25 years
- Main teaching areas: tourism, education, quantitative research methods
- Current position: Associate Director, Instructional Systems Design and Training Delivery

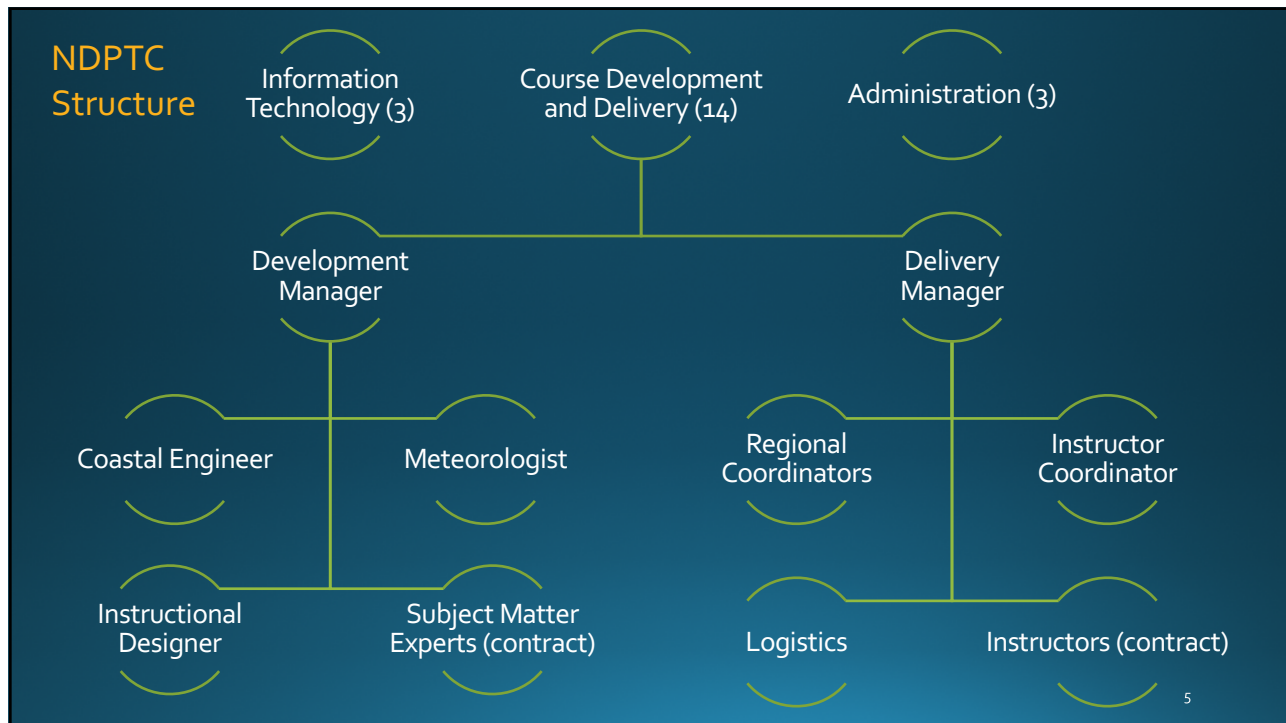
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- Established in 2008
- One of seven members of the National Domestic Preparedness Consortium
- Funded by U.S. Federal Emergency Management Agency (FEMA)
- Currently offer 21 certified courses across the U.S. to approx. 6000 participants.

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## National Domestic Preparedness Consortium

<http://www.aar.com/>

**Dr. Van Romero**  
Energetic Materials Research and Testing Center  
New Mexico Tech  
801 Leroy Place, Socorro, NM 87801  
Phone: 575-835-5312  
<http://www.emrtc.nmt.edu/>

**Dr. Karl Kim**  
National Disaster Preparedness Training Center  
University of Hawaii  
828 Fort Street Mall, Suite 320, Honolulu, HI 96813  
Phone: 808-956-0600  
<https://ndptc.hawaii.edu/>

**Al Davis, NDPC Chair**  
National Emergency Response and Recovery Training Center / Texas A&M Engineering Extension Service  
200 Technology Way, College Station, TX 77845  
Phone: 844-789-5673  
<https://texex.org/nerttc/>

**Jeff Mayne**  
LSU NCBRT/Academy of Counter-Terrorist Education  
3190 Pleasant Hall, Baton Rouge, LA 70803  
Phone: 877-529-8550  
<http://www.ncbrt.lsu.edu/>

**Lee Sikes**  
Center for Radiological Nuclear Training At The Nevada National Security Site  
PO Box 98521, M/S NLV 126, Las Vegas, NV 89193  
Phone: 877-963-2867  
<http://www.ctcrnnsa.org/>

**Tony Russell**  
Center for Domestic Preparedness  
61 Responder Drive, Anniston, AL 36205  
Phone: 256-847-2212  
<https://cdp.dhs.gov/>

## National Structure of Training

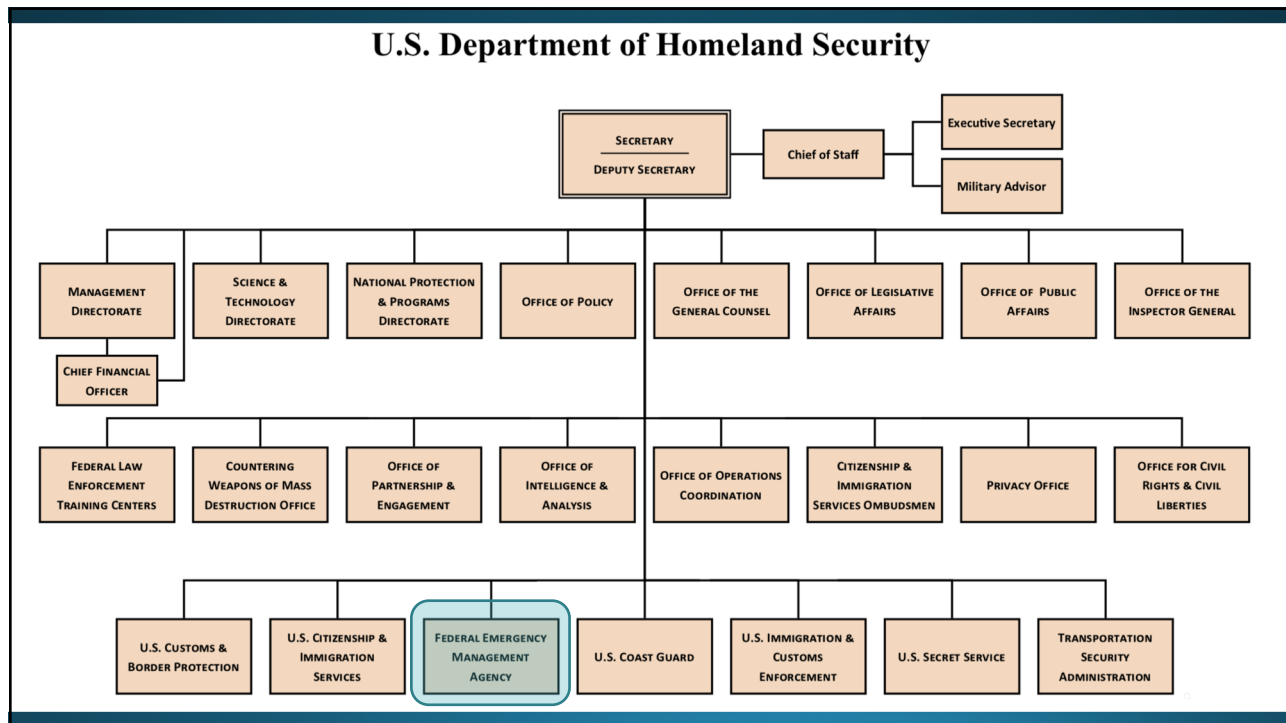
- Institutional structure of emergency management
- Key agencies and policies
- General concepts of preparedness and resilience

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## Department of Homeland Security

- Established in 2002
- Reflected need for integrated agency to deal with all threats to US security after 9/11 attacks.
- Represented one of the most significant reorganizations of the US government.
- Includes FEMA (Federal Emergency Management Agency), which was established in 1978.

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## FEMA Strategic Plan 2018-2022

2018-2022



## Strategic Plan

Helping People. Together.

FEMA Mission: Helping people before, during, and after disasters.

STRATEGIC GOALS

### I. BUILD A CULTURE OF PREPAREDNESS



- OBJECTIVES**
- 1.1 Incentivize investments that reduce risk, including pre-disaster mitigation, and reduce disaster costs at all levels
  - 1.2 Close the insurance gap
  - 1.3 Help people prepare for disasters
  - 1.4 Better learn from past disasters, improve continuously, and innovate

### II. READY THE NATION FOR CATASTROPHIC DISASTERS



- 2.1 Organize the "BEST" (Build, Empower, Sustain, and Train) scalable and capable Incident workforce
- 2.2 Enhance intergovernmental coordination through FEMA Integration Teams
- 2.3 Posture FEMA and the whole community to provide life-saving and life-sustaining commodities, equipment, and personnel from all available sources
- 2.4 Improve continuity and resilient communications capabilities

### III. REDUCE THE COMPLEXITY OF FEMA



- 3.1 Streamline the disaster survivor and grantee experience
- 3.2 Mature the National Disaster Recovery Framework
- 3.3 Develop innovative systems and business processes that enable FEMA's employees to rapidly and effectively deliver the agency's mission
- 3.4 Strengthen grants management, increase transparency, and improve data analytics

FEMA Vision:  
**A prepared and resilient Nation.**





## Regional Structure of FEMA



## Presidential Policy Directive-8

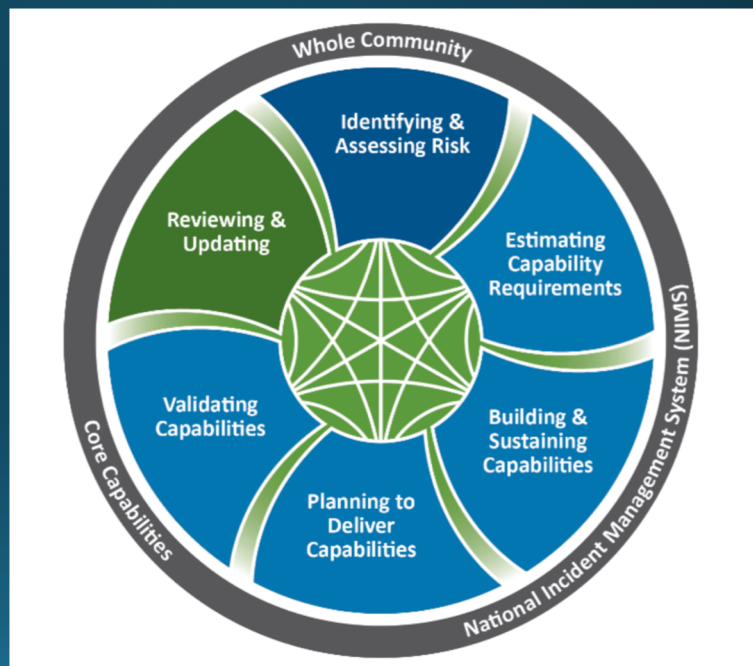
- PPD-8 was signed on March 30, 2011.
- Calls for inter-agency coordination and involvement of the whole community.
- Provides the structure for achieving preparedness and resilience.





## National Preparedness Goal

"A secure and resilient nation with the capabilities required across the whole community to prevent, protect against, mitigate, respond to, and recover from the threats and hazards that pose the greatest risk."



## “Whole Community”

- Individuals and families, including those with access and functional needs
- Businesses
- Faith-based and community organizations
- Nonprofit groups
- Schools and academia
- Media outlets
- All levels of government, including state, local, tribal, territorial, and federal partners

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## Whole Community Operationalized

- Involving people in the development of national preparedness documents.
- Ensuring their roles and responsibilities are reflected in the content of the materials. (Very important for training courses.)

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# National Planning Frameworks

- The Frameworks describe how the whole community works together to achieve the National Preparedness Goal.
- There is one Framework for each of the five mission areas, Prevention, Protection, Mitigation, Response, and Recovery.
- The intended audience for the Frameworks: individuals, families, communities, the private and nonprofit sectors, faith-based organizations, and local, state, tribal, territorial, insular area, and federal governments.

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## Core Capabilities

Core Capabilities are organized into five mission areas.

- Prevention
- Protection
- Mitigation
- Response
- Recovery

Prevention	Protection	Mitigation	Response	Recovery
Planning				
Public Information and Warning				
Operational Coordination				
Intelligence and Information Sharing		Community Resilience Long-term Vulnerability Reduction Risk and Disaster Resilience Assessment Threats and Hazards Identification	Infrastructure Systems	
Interdiction and Disruption			Critical Transportation Environmental Response/Health and Safety Fatality Management Services Fire Management and Suppression Logistics and Supply Chain Management Mass Care Services Mass Search and Rescue Operations On-scene Security, Protection, and Law Enforcement Operational Communications Public Health, Healthcare, and Emergency Medical Services Situational Assessment	Economic Recovery Health and Social Services Housing Natural and Cultural Resources
Screening, Search, and Detection				
Forensics and Attribution	Access Control and Identity Verification Cybersecurity Physical Protective Measures Risk Management for Protection Programs and Activities Supply Chain Integrity and Security			

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## National Incident Management System (NIMS)

- Guides all levels of government, NGOs, and the private sector to work together to prevent, protect against, mitigate, respond to, and recover from incidents.
- Provides stakeholders across the whole community with the shared vocabulary, systems, and processes to successfully deliver the capabilities described in the National Preparedness System.



## National Incident Management System (NIMS)

- Defines operational systems, including the Incident Command System (ICS), Emergency Operations Center (EOC) structures, and Multiagency Coordination Groups (MAC Groups) that guide how personnel work together during incidents.
- Applies to all incidents, from traffic accidents to major disasters.

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## National Response Framework (NRF)

The NRF establishes a single, comprehensive approach to domestic incident management. The NRF is used to prevent, prepare for, respond to, and recover from terrorist attacks, major disasters, and other emergencies. It is an all-hazards plan built on the template of the National Incident Management System (NIMS). The NRF provides the structure and mechanisms for national-level policy and operational direction for domestic incident management.

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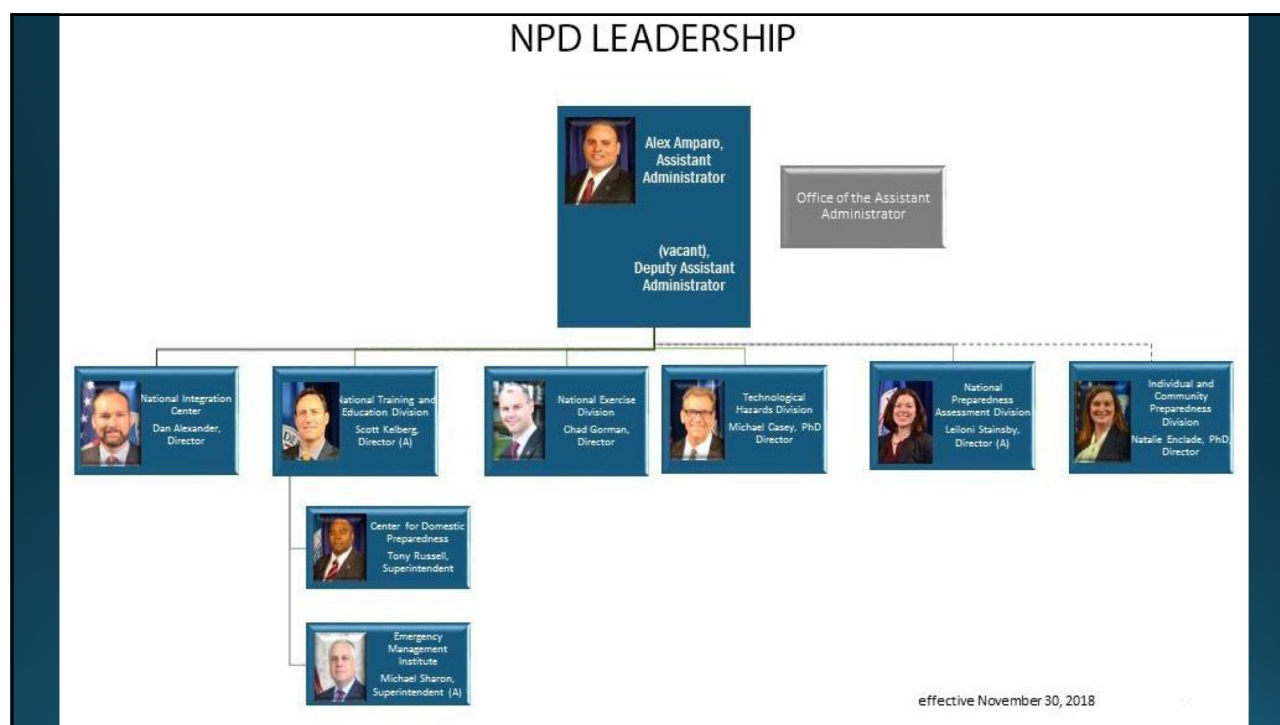
# National Preparedness Directorate

The National Preparedness Directorate (NPD) provides the doctrine, programs, and resources to prepare the Nation to prevent, protect, mitigate, respond to and recover from disasters while minimizing the loss of lives, infrastructure, and property.

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## National Training and Education Division (NTED)

Leads the development and delivery of training and education for first responders, emergency managers, and the public through a multi-disciplinary, data-driven learning approach and partnerships with higher education institutions.

## National Training and Education System

- Collect and analyze data on training and education requirements and use that analysis to inform decisions on funding, programming, and course design and delivery;
- Promote individual competency areas to build workforce capacity and ensure continual development of education programming;

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## National Training and Education System

- Use training and education to build and sustain capabilities that address a community or organization's priority threats and hazards; and
- Coordinate and collaborate across the whole community to build "Communities of Practice" that share information and resources to address training and education requirements.

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## Emergency Management Institute

Mission: To support the Department of Homeland Security and FEMA's goals by improving the competencies of the U.S. officials in Emergency Management at all levels of government to prepare for, protect against, respond to, recover from, and mitigate the potential effects of all types of disasters and emergencies on the American people.

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## Center for Domestic Preparedness

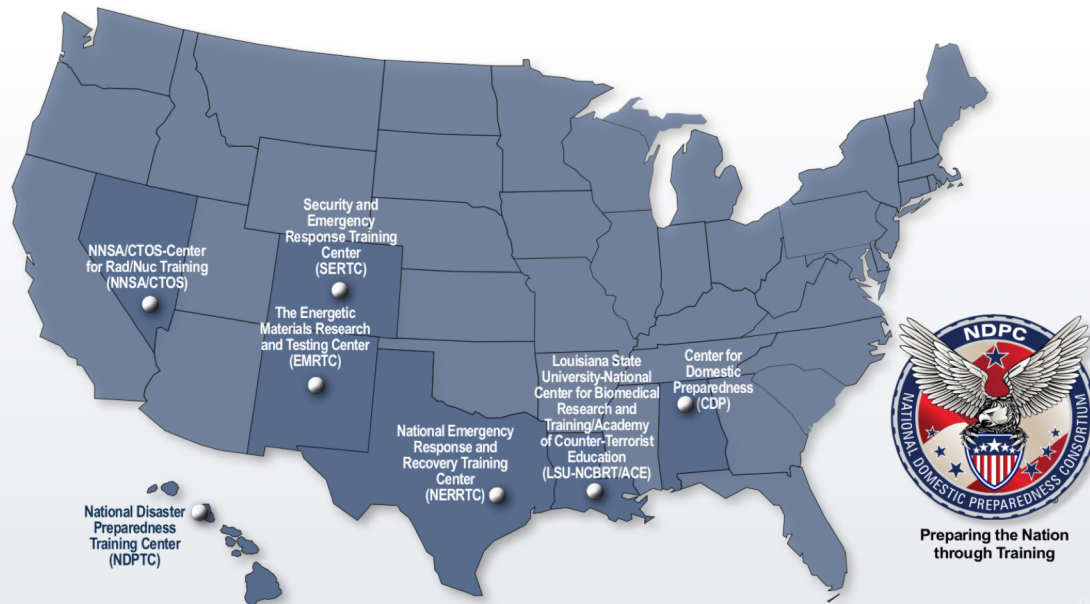
The Center for Domestic Preparedness provides advanced, all-hazards training to approximately 50,000 emergency responders annually from state, local, tribal, and territorial governments, as well as the federal government, foreign governments, and private entities, as available. The scope of training includes preparedness, protection, and response.

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## Map of Partners Location



PREPARING THE NATION THROUGH TRAINING

# Training Development

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## Disciplines Served by NTED

- Emergency Management Agency (EMA)
- Emergency Medical Services (EMS)
- Fire Service (FS)
- Governmental Administrative (GA)
- Hazardous Materials Personnel (HZ)
- Healthcare (HC)
- Law Enforcement (LE)
- Public Health (PH)
- Public Safety Communications (PSC)
- Public Works (PW)

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## NTED Course Levels

NTED offers courses at different levels to accommodate different job functions of the first responder community:

- Awareness
- Performance
- Management & Planning

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## NTED Delivery Modes

- Resident: At the training provider's own facility.
- Mobile: At or near the location of the agency that requests the training.
- Online: This self-paced training is delivered in an asynchronous format via computer and Internet connection.


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# Importance of Instructional Design

- Instructional design is the primary mechanism that FEMA/NTED uses to ensure consistency and quality among its courses.
- All training providers are required to have an instructional design professional on staff.
- Instructional design also ensures that courses comply with legal requirements, especially related to disability access.

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National Training  
and Education  
Division


 **FEMA**

Development

Templates

Resources

NTED



## Welcome to ADDIE

ADDIE encapsulates the five phases of developing NTED's trainings (Analyze, Design, Develop, Implement and Evaluate). These phases align with the ADDIE instructional Systems Design (ISD) model. The ADDIE ISD model breaks the process into phases to help guide the Instructional Development Team throughout the course development lifecycle. Within each phase, you will find tools and resources to help you complete each phase successfully. Please see the Help tab above for information on getting started.

Please click on the images below to learn more about each phase of ADDIE.

A

D

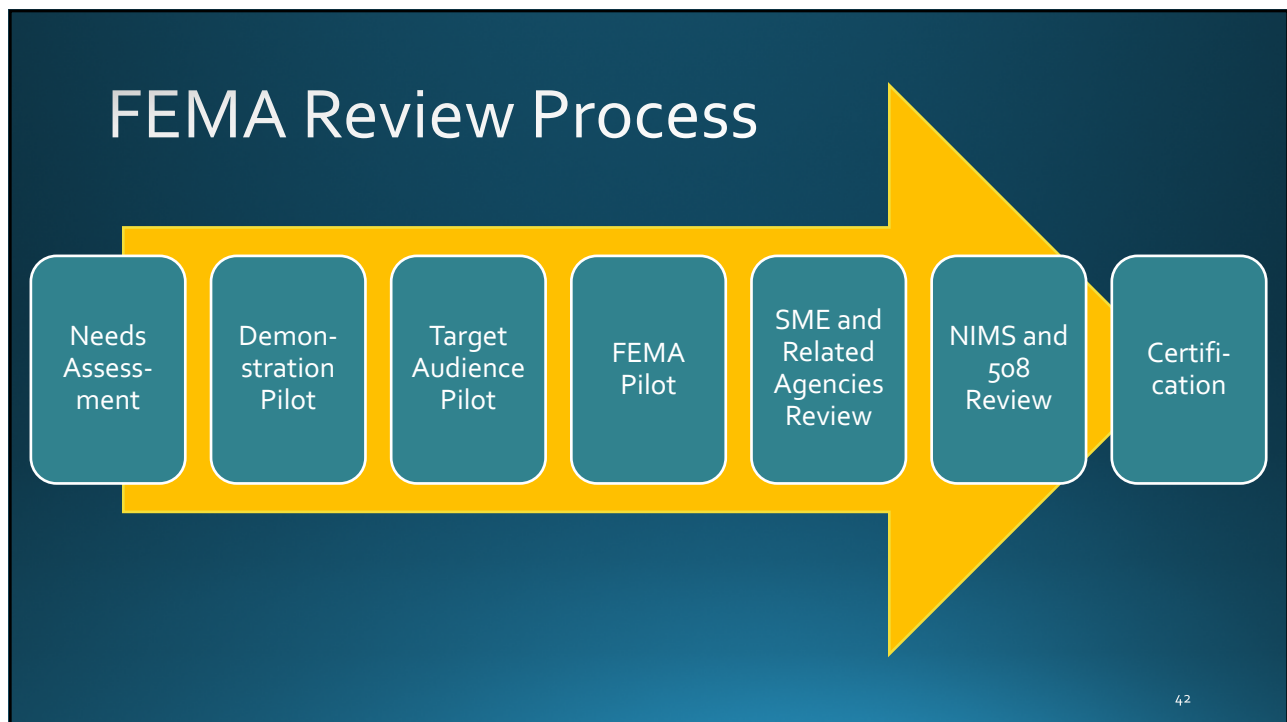
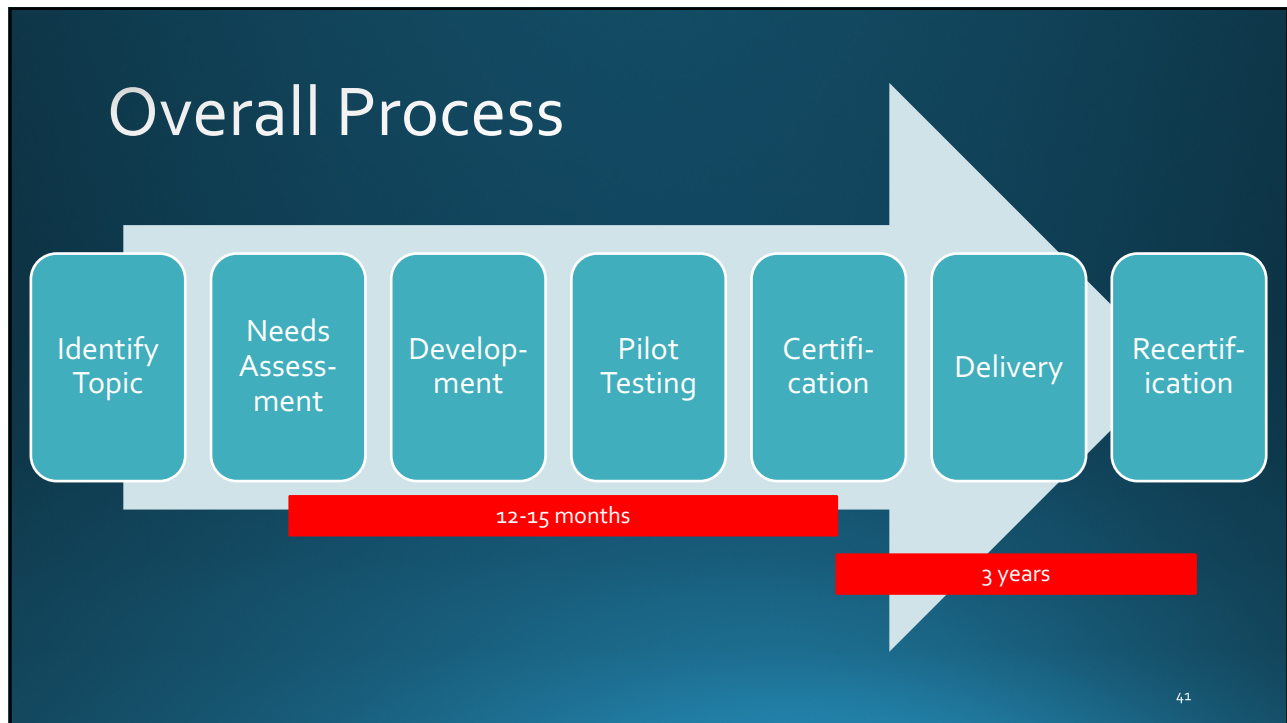
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I

E

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# Needs Assessment

- Is the course aligned with core capabilities, etc.?
- Who are the stakeholders and what is their perspective on the course?
- How does the course address current training gaps?
- How are those gaps currently being met?
- Does the course support FEMA's mission?

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## Appendix A: UTNA Assessment Tool

Activity	Activity Label	Activity Guide
1	<b>Identify Topic and Reason for Assessment</b>  Before proceeding, conduct a review of completed UTNAs to determine if the topic has been assessed	<b>Topic:</b> (e.g. Evacuation for Catastrophic Disasters) <input type="checkbox"/> Scheduled/Cyclical Review [When available, include official course number and title.] <hr/> <input type="checkbox"/> Training Evaluation Reports (e.g., Level I, II, III) <hr/> <input type="checkbox"/> New Training requirements and proposals (e.g., guidance from White House, Congress, DHS, THIRA/SPR Analysis, National Preparedness Report or other authority) <hr/> <input type="checkbox"/> Change in Standard(s) to an existing course/program (e.g., National Fire Protection Association) <hr/> <input type="checkbox"/> Incident/Event to Include Exercise Preparation or Operational Lessons Learned results <hr/> <input type="checkbox"/> Agency or Inter-Agency Reports (e.g., Interagency Board [IAB], <a href="#">Training and Exercises Subgroup</a> ) <hr/> <input type="checkbox"/> Private Sector Survey/Report <hr/> <input type="checkbox"/> Other, such as Media Report(s) <hr/>

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# Course Mapping Tool

For inquiries about this product, write to: [FEMA-NTE@FEMA.DHS.GOV](mailto:FEMA-NTE@FEMA.DHS.GOV)

Mapping Tool Version Date: February 9, 2017

Date of Course Creation / Revision:

Course Title:

Course Description:

Primary Threat Addressed in Course:

Target Audience:

Training Partner:

Course Number:

Delivery Mode:

Contact Hours:

Time Calculator

Hours	Minutes	# of ELOs	Time / ELO

Contact Hours Sum Check: 0.00

### Course Output Information

Course Level:

Primary DHS Mission Area for this Course: Does Not Map

Primary Core Capability for this Course: Does Not Map

Secondary Core Capabilities for this Course:

ELO #	Module #	Module ELO #	ELO Action Verb	Enabling Learning Objectives (ELO)	Time (hours) 6 min = 0.1 hr	Knowledge (0 - 6 scale)	Skill (0 - 7 scale)	Attitudes (0 - 5 scale)	KSA Total (0 - 18)	ELO Complexity	Core Capability	Mission Area (Hidden)	Mission Area
1	1	1											
2													
3													
4													
5													
6													
7													
8													
9													

# Training Delivery

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National Training and Education Division		FEMA		Training Catalogs	Course Info	Tools	NTES	About NTED
Table View		Calendar View		Print				
Course Number	Course Name	Start Date	End Date	City	State	Training Provider	Training Providers	
PER-246	Primary Screener Backpack Basic Course	05/17/2018	05/17/2018	Brooklyn	NY	NTS	<input type="checkbox"/> CRD - Center for Rural De <input type="checkbox"/> FCC - Frederick Communi <input type="checkbox"/> GTRI - Georgia Tech Rese <input type="checkbox"/> GWU - George Washingto <input type="checkbox"/> IAFF - International Assoc <input type="checkbox"/> LSU - Louisiana State Uni <input type="checkbox"/> NMT - New Mexico Institu <input type="checkbox"/> NTS - Nevada Test Site <input type="checkbox"/> TEEX - Texas Engineering <input type="checkbox"/> TTCI - Transportation Tec <input checked="" type="checkbox"/> UH-NDPTC - University of Preparedness Training Cen <a href="#">Show Less [-]</a>	
MGT-458	Building Whole Community Engagement through Local Emergency Planning Committees	05/17/2018	05/17/2018	Spanish Fork	UT	GTRI		
MGT-384	Community Preparedness for Cyber Incidents	05/17/2018	05/18/2018	Gresham	OR	TEEX		
MGT-418	Readiness: Training Identification and Preparedness Planning	05/17/2018	05/18/2018	Bethpage	NY	LSU		
PER-340	Active Threat Integrated Response Course (ATIRC)	05/17/2018	05/19/2018	Union City	NJ	LSU		
AWR-325	Site Protection and Document Screening Techniques	05/17/2018	05/17/2018	Brooklyn	NY	LSU		
AWR-130-2	Incident Response to Terrorist Bombings - Awareness, Indirect Delivery	05/18/2018	05/18/2018	Madison	WI	NMT		
PER-334	Search and Rescue in Community Disasters	05/18/2018	05/19/2018	Guyton	GA	TEEX		
AWR-325	Site Protection and Document Screening Techniques	05/18/2018	05/18/2018	Brooklyn	NY	LSU		
PER-211	Medical Management of Chemical, Biological,	05/19/2018	05/20/2018	East	CT	TEEX		
							Training Method	
							<input type="checkbox"/> I - Indirect <input type="checkbox"/> M - Mobile <input type="checkbox"/> R - Resident <input type="checkbox"/> W - Web-Based	

## Training Costs

NTED training partners deliver training no cost to the individual or the individual's jurisdiction or agency. In some circumstances, funds may be used for overtime and backfill costs for those individuals attending NTED courses.

(Sometimes, this poses complications in setting up deliveries.)

## Instructors

- The best instructors have both practical experience and expertise in the content.
- This is difficult to find, so we often pair two instructors who have different strengths.

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## Adult Education

- FEMA emphasizes instructional technique for adult education (not academic).
- Recently, there has been a strong focus on instructor development.
- Instructors for pilot deliveries are carefully evaluated (in addition to the content).

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## Key Role of SAAs

- Because training is free, FEMA State Administrative Agencies (SAAs) have important responsibilities.
- They also provide feedback on what courses are being requested.

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## Academic Initiative

- One of our objectives is to integrate training into academic programs.
- We have developed several “POD” (points of delivery) agreements with universities.

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# Issues and Challenges

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## Course Development Challenges

- Managing expertise
  - On-staff versus contract-based subject matter experts
  - “Ownership” of the course
- Updating contents
  - Rapidly changing technology (i.e., social media, disaster communications)
  - Rapidly changing regulatory environment (i.e., UAV)
- Meeting FEMA review and design guidelines
  - Section 508 (disability) compliance

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## Course Delivery Challenges

- Insufficient budget to meet demand
- Logistical demands of nationwide delivery
  - How to maintain consistency of classroom faculty?
- Maintaining instructional consistency
- Maintaining instructor excellence
- Meeting diverse participant expectations
- Maintaining no-fee access

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## General Challenges

- What is the best organizational structure to balance efficiency and creativity in course development?
  - Cannot afford a lot of SMEs on staff, so need generalists in a specific area
- How can we integrate training into academic programs?
- The political context of disasters and training
  - Prioritization of human-caused (vs natural) disasters

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## *Mahalo!*

- I hope this information will be helpful to you.
- Please contact me if you have any questions or if I can assist you in any way.
- [ruyeno@hawaii.edu](mailto:ruyeno@hawaii.edu)