PER-307-W

Introduction to Improvised Nuclear Device Effects and Response Strategies

This web-based course provides an overview of the expected effects from the detonation of an improvised nuclear device (IND) in a major U.S. city. It provides an overview of the current preplanning guidance and response strategy recommendations to maximize the preservation of life. It also provides first responders, key leaders, emergency planners, and support personnel with an IND specific response guidance, such as recognition, immediate actions, response planning, damage zones, fallout/radiation hazards, and shelter and evacuation strategies.

Course Objectives

- Given a list, identify the critical elements and gaps in planning for a response to an IND detonation.
- Given a list on the prompt effects from a low yield (10 KT) nuclear detonation in an urban environment, select the identifiers of an IND detonation and the main elements of each damage zone.
- Given reference material, maps, activities, and information on the dangerous effects of an IND detonation, identify the five different zones and state the safety considerations for an IND response plan.
- Given statements and corresponding graphics on response strategies and safety considerations as a result of an IND detonation, identify the effective sheltering and evacuation considerations, and why cascading effects multiply the dangers and impede response efforts.
- Given an overview of PPD-8 and its components, locate the applicable documents and reference.
- Given a review of *The Federal Response to Hurricane Katrina: Lessons Learned*, recognize the hindrances that impeded response operations.

Target Audience /Discipline

Fire Service, Law Enforcement, Emergency Management, Emergency Medical Services, Hazardous Materials, Public Health, Public Safety Communications, Public Works, Search and Rescue; Other Disciplines: Animal Emergency Services, Agricultural Safety, Citizen/Community Volunteer, Governmental Administrative, Healthcare, Information Technology, Private Sector/Corporate Security and Safety Professionals, Transportation Security

Others include state and local personnel at all levels who could be involved in the planning, conduct, management, leadership, or support of the response to a nuclear detonation in a U.S. city.

Cost

All training and course materials are provided at no cost to eligible Participants. Funding is provided by the U.S. Department of Homeland Security, Federal Emergency Management Agency/National Preparedness Directorate.

Compliance

This course enhances the competencies defined in National Fire Protection Association NFPA 472, "Standard for Competence of Responders to Hazardous Materials/

Min/Max Enrollment: **N/A**

Hours: **3.0**

Format: **WBT**

DHS Course #: **PER-307-W**

Prerequisites:
Familiarity with basic radiation safety principles and fundamentals of radiological emergency response via completion of any one of the following courses (or their equivalents):

Recommended Prerequisites:

AWR-140 or AWR-140-W
Introduction to Radiological/Nuclear WMD Operations

Familiarity with the National Incident Management System (NIMS) and the Incident Command System (ICS) via completion of all the following courses (or their equivalents):

- ICS-100 Introduction to the Incident Command System
- ICS-200 Basic Incident Command/ICS, for Single Resources and Initial Action Incidents
- ICS-700 National Incident Management System (NIMS): An Introduction

WMD Incidents," for responding to specific radiological/nuclear WMD incidents, and augments the responder's knowledge and skills to perform those duties and functions.

Enrollment Information

Access the CTOS Web Campus at www.nts-ctos.com to create an account. To register for an online course, select the course catalogue.

Graphic Depicting possible damage from an IND.
- CTOS/NNSA