

PER-240

WMD Radiological/Nuclear Responder Operations Course

This course trains emergency personnel to respond to radiological weapon of mass destruction incidents while mitigating the health risks to themselves and the public. The course combines individual performance skills required for the response to a radiological WMD incident, with the fundamentals of radiation, radiological health effects, and terrorist use of radiological material. Participants learn characteristics and operation of instrumentation and dosimeters, survey techniques, and operational considerations for the response to a radiological WMD incident.

Gained knowledge and skills are reinforced with drills and exercises using radioactive material. The course advances from basic operation and techniques to tactical employment in realistic scenarios, concluding with a comprehensive final evaluation exercise encompassing all the learned individual knowledge and skills required to respond to a WMD incident.

Course Objectives

- Describe the terminology and units used for radiation measurement.
- Read an analog radiological instrument dial and interpret the radiation in the correct units.
- Use instrumentation to determine the dose rate and explain why it is necessary to get a dose rate reading.
- Use survey techniques to determine radiological hazards and to make tactical decisions.
- Recognize possible radiological/nuclear threats that could occur within the U.S., and identify who may obtain radiological/nuclear material, where they may obtain such material, and the impact and consequences of such an action.
- Demonstrate the basic operation of a digital survey meter according to the instructions given.
- Demonstrate the proper use of dosimeters.
- Recognize and identify the biological effects of exposure to ionizing radiation accompanying radiological/nuclear incidents and how to properly identify, triage, and support contaminated patients.
- Describe how to conduct a radiological decontamination for responders and the public.
- Identify the procedure for selecting, donning, and doffing of personal protective equipment (PPE) for a radiological/nuclear environment.
- Demonstrate knowledge of radiological threats and tactical considerations required to operate safely and effectively at a radiological incident.

Target Audience/Discipline

Fire Service, Law Enforcement, Emergency Medical Services, Hazardous Materials, Public Works, Search and Rescue; Other Disciplines: Healthcare, Private Sector/Corporate Security and Safety Professionals
(continued...)

Min/Max Enrollment: **25–50**

Hours: **24 hours (3 days)**

Format: **Mobile**

DHS Course #: **PER-240**

Prerequisites: **N/A**

Recommended Prerequisites:

AWR-140 or AWR-140-W

Introduction to Radiological/Nuclear WMD Operations



Responders survey for safe radiation levels prior to entering building - CTOS/NNSA

RESPONSE

Eligibility

It is the responsibility of the jurisdiction to select course participants.

Location

Participant site

Cost

All training and course materials are provided at no cost to eligible participants.

Compliance

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

In order to attend a training class delivered by one of the FEMA/NPD training partners, a request must be submitted to the designated U.S. Department of Homeland Security training point of contact. For a Training Coordinator in your area, please call 877.963.2867 or email ctosmtreg@nv.doe.gov.



CTOS conducts mobile training at host agency facilities using sealed radioactive sources – CTOS/NNSA