**Prevent Mission Courses:**

U.S. Department of Homeland Security certified courses are designed to improve the nation’s capability to detect unauthorized attempts to import, store, develop, or transport radiological/nuclear material that could be used detrimentally against the homeland.

**Refresher Courses:**

*These refresher courses train Emergency personnel who have previously completed the associated Instructor-led courses.*

**PRND Backpack Refresher (PER-349)**

ILT/TtT 1/2-day (2 hrs) Mobile

PER-349 provides refresher training to Primary Screeners who have successfully completed PER-246, Backpack Operations for the Primary Screener Course, focuses on the detection, location, and assessment of the presence of radiological material when alarmed to its presence by a larger and much more sensitive radiation detection device.

**Primary Screener/Personal Radiation Detector Refresher (PER-300)**

ILT/WBT 2 hrs Mobile

PER-300 provides refresher training to Primary Screeners who have successfully completed the Instructor-led PER-243 Primary Screener/Personal Radiation Detector course. PER-300 emphasizes crucial training points from PER-243, while reviewing the knowledge and skills required in the operation and employment of a PRD during the initial detection of radioactive materials in varying scenarios.
**Response Mission Courses:**

*These courses train Emergency personnel to respond to radiological/nuclear Weapon of Mass Destruction (WMD) incidents. Both mobile and resident courses are performance-based, with sealed radioactive sources used to create realistic drills and practical exercises.*

### Introduction to Nuclear Detonation Effects and Response Strategies (PER-307)

**ILT/WBT 1/2-day (4 hrs) Mobile**

PER-307 provides overviews of the expected nuclear device detonation effects in a major U.S. city with current preplanning guidance and response strategy recommendations to maximize the preservation of life. The course provides First Responders, Key Leaders, Emergency Planners, and support personnel with nuclear detonation-specific response guidance including recognition, immediate actions, response planning, damage zones, fallout/radiation hazards, and shelter and evacuation strategies.

![Image of nuclear explosion]

### Operations Level Response to Radiological/Nuclear WMD (PER-348)

**ILT 1-day (8 hrs/7 contact hrs) Mobile**

PER-348 is designed for Response mission operations and personnel who have little or no training in radiological/nuclear emergency WMD response. This course provides First Responders with fundamental knowledge regarding mission spaces related to radiological/nuclear threats. The Response mission area includes an overview of radiological instruments and protective measures, such as PPE and decontamination (i.e., Emergency, Gross, Mass, and Technical).

### Population Monitoring at Community Reception Centers (PER-332)

**ILT 1-day (8 hrs/7 contact hrs) Mobile**

PER-332 provides fundamental knowledge and situational awareness to safely and effectively perform or assist population-monitoring duties at Community Reception Centers (CRCs) or similar facilities after a radiological/nuclear incident has occurred.

### Radiation Instruments Operations (PER-345)

**ILT 1/2-day (4 hrs) Mobile/Resident**

PER-345 provides instrument operation skills needed by First Responders when responding to a radiological/nuclear incident, as well as an overview of detection equipment, including selection and general operation. Training encompasses the basic operations of dosimeters, PRDs, survey meters, and RILDs. This course also enables First Responders to select the appropriate instrument operation in the performance of their mission.

### Operations Level Response to Radiological/Nuclear WMD for Emergency Medical Services/Healthcare (PER-370)

**ILT 1-day (8 hrs/7 contact hrs) Mobile**

PER-370 provides response-level training to those Participants who could provide medical services during a radiological/nuclear incident. The goal of the training is to increase Participants’ knowledge when responding to a radiological/nuclear WMD incident in the safest manner possible for themselves and victims. The course will provide Participants with information needed to work in a radiologically contaminated environment and to best help radiologically contaminated victims.

### Response to Radiological/Nuclear WMD Incidents (PER-354)

**ILT 3-day (30 hrs/27 contact hrs) Mobile/Resident**

PER-354 aligns with National Fire Protection Association (NFPA © 472, Annex D, “Competencies for Operations Level Responders Assigned Radiological Agent-Specific Tasks” and provides the baseline response capability to safely respond to incidents involving a Radiological Exposure Device (RED), a Radiological Dispersal Device (RDD), or a nuclear detonation.

### Radiological Operations Support Specialist (ROSS) (PER-388)

**ILT 4-day (32 hrs/28 contact hrs) Mobile**

PER-388 trains radiological specialists to become candidates for the position of Radiological Operations Support Specialist (ROSS). A ROSS is a state and local Subject Matter Expert tasked with identifying and providing critical information pertaining to radiological/nuclear incidents to Responders, Key Leaders, and Decision Makers in an Incident Command System environment. The ROSS will assist the Incident Commander and Key Leaders by making the technical aspects of a coordinated response clear and understandable to all state and local stakeholders.

### Train-the-Trainer Courses:

This program is available to local agency personnel that have successfully completed a CTOS Train-the-Trainer Course of Instruction from one or more of the following courses:

- Introduction to Radiological/Nuclear WMD Operations (AWR-140-1)
- Introduction to Radiological/Nuclear WMD Operations for Law Enforcement (AWR-346-1)
- Primary Screener/Personal Radiation Detector (PER-243-1)
- Primary Screener/Personal Radiation Detector Refresher (PER-300-1)
- PRND Backpack Refresher (PER-349-1)
Resident Training Courses

Resident courses conducted at the Nevada National Security Site offer a unique training venue, shaped by numerous nuclear detonations and radiological dispersal tests.

No Cost

Training is fully funded for qualified individuals from state, local, territorial, and tribal agencies.

Travel & Lodging

CTOS pays travel and per diem expenses for attendees, but cannot provide funds for attendees’ overtime and backfill. Federal employees may attend a resident course based on availability, but must provide their own travel and per diem expenses.

Mobile Training

Training can be delivered to your agency to support its organizational needs.

Indirect Training

CTOS authorizes training personnel to conduct specific CTOS courses of instruction in their home state or jurisdiction. These courses are certified by the U.S. Department of Homeland Security/Federal Emergency Management Agency/National Training and Education Division. This program is available to local agency personnel that have successfully completed a CTOS Train-the-Trainer Course of Instruction.

Enrollment Information

In order to attend a course delivered by one of the Federal Emergency Management Agency/National Preparedness Directorate training partners, a request must be submitted to the designated U.S. Department of Homeland Security training point of contact. To locate a training coordinator in your area, call 877.963.2867 or send an email to ctosreg@nv.doe.gov.

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Introductory Courses:

**Introduction to Radiological/Nuclear WMD Operations (AWR-140)**

ILT/WBT/TtT 1/2-day (4 hrs) Mobile

AWR-140 provides First Responders and others in Response or Support mission roles with an introduction to radiological/nuclear WMD operations. This course—which aligns with the Awareness level and Operations level competencies of NFPA® 472, “Standard for Professional Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents”—also provides fundamental knowledge in threat or incident recognition, protective measures, notifications, and incident area management.

**Introduction to Radiological/Nuclear WMD Operations for Law Enforcement (AWR-346)**

ILT/TtT 1/2-day (4 hrs) Mobile

AWR-346 provides Law Enforcement with fundamental knowledge in two distinct mission spaces related to radiological/nuclear threats: PRND and Response. PRND training covers program structure, operational modes, and federal assets. Response mission training provides an overview of threat or incident recognition, protective measures, notifications, and scene site management during a radiological/nuclear WMD incident as they relate to Law Enforcement operations.

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**Resident Training Courses**

Courses:

- **Introduction to Radiological/Nuclear WMD Operations (AWR-140)**
  - ILT/WBT/TtT 1/2-day (4 hrs) Mobile
  - This course provides an introduction to radiological/nuclear WMD operations. It aligns with the Awareness level and Operations level competencies of NFPA® 472, the “Standard for Professional Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents.” It also provides fundamental knowledge in threat or incident recognition, protective measures, notifications, and incident area management.

- **Introduction to Radiological/Nuclear WMD Operations for Law Enforcement (AWR-346)**
  - ILT/TtT 1/2-day (4 hrs) Mobile
  - This course is designed specifically for Law Enforcement officers. It covers two distinct mission spaces: PRND and Response. PRND training covers the program structure, operational modes, and federal assets. Response mission training provides an overview of threat or incident recognition, protective measures, notifications, and scene site management during a radiological/nuclear WMD incident as it relates to Law Enforcement operations.

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CTOS Center for Radiological/Nuclear Training

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