

PER-345

## Radiation Instruments Operations

This course provides instrument operation skills needed by the first responders when responding to a radiological or nuclear incident. The course provides a general overview of detection equipment, its selection, and its general operation. The training will encompass basic operations of the following: dosimeters, Personal Radiation Detectors, (PRDs), Human Portable Radiation Detectors (Backpacks), survey meters, portal monitors, and Radio-Isotope Identifier Devices (RIIDs). The course will enable participants to select the appropriate instrument operation in performance of that mission.

### Objectives

Upon completion of this course, participants will distinguish between various radiation detection and measuring devices. The participant will:

- Identify basic radiation concepts.
- Describe the characteristics and competencies of a dosimeter and PRD.
- Describe the characteristics and demonstrate basic operations of a survey meter.
- Describe the general characteristic and demonstrate basic operation of a portal monitor.
- Describe the characteristics of a RIID and demonstrate the RIID identification functions.
- Demonstrate the proper use of the radiation detection and employ the personal safety skills required to operate the instrument.
- Demonstrate knowledge of the considerations, limitations, and selection of devices for the specific operational need.

### Target Audience/Discipline

Fire Service, Law Enforcement, Emergency Management,

Emergency Medical Services, Governmental Administrative, Healthcare, Hazardous Materials, Public Health, Citizen/Community Volunteer, and other personnel who may be assigned radiological detection operations.

### Eligibility

Eligible course participants will fall within the target audience and are responsible to perform radiological detection operations.

### Location

Participant Site/Nevada National Security Site

### Recommended Prerequisites

AWR-140 Introduction to Radiological/Nuclear WMD Operations, or equivalent training or experience.

### Cost

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

### Enrollment Information

To attend a training class delivered by CTOS-Center for Radiological/Nuclear Training, contact a training coordinator at 877.963.2867 or email [ctosmttreg@nv.doe.gov](mailto:ctosmttreg@nv.doe.gov).

Min/Max Enrollment: 24-40

Hours: 4 (1/2 day)

Format: Mobile/Resident

DHS Course #: PER-345

RESPONSE



Conducting a radiological vehicle survey during training - CTOS/NNSA