



## WMD Radiological/Nuclear Responder Operations Course PER-240

This operations-level weapons of mass destruction (WMD) course is delivered throughout the nation to jurisdictions approved by the Federal Emergency Management Agency/National Preparedness Directorate and the U.S. Department of Homeland Security State Administrative Agencies. It is designed to teach first responders how to respond to an incident involving a radiological or nuclear WMD, such as a Radiological Dispersal Device (RDD, or "Dirty Bomb") or an Improvised Nuclear Device (IND).

### Course Description:

Responders are given hands-on experience with radiation fields while learning the basic operation of radiation detectors and dosimeters. Attendees are taught to conduct radiological surveys of personnel, vehicles, facilities, and outdoor areas. Hands-on activities blend cognitive knowledge of radiation and instruments with survey techniques used in detecting the presence of radiation, locating radioactive material, and measuring levels of radiation and radiological contamination.

Attendees also learn to select personal protective equipment based on the radioactive threat, perform radiological decontamination, conduct team operations at a radioactive hot zone, and perform lifesaving rescue operations in high radiation areas.<sup>1</sup>

The course culminates with an evaluation exercise requiring attendee teams, under a unified command, to respond to a scenario where a terrorist attack has dispersed radiological material at a facility or in a public transportation system.

Every participant will be issued a dosimeter and radiation survey meter; however, it is recommended that attendees bring their own department's equipment if available.

### Course Length:

24 hours (three 8-hour days)

### Prerequisite:

Weapons of Mass Destruction Radiological/Nuclear Awareness Course (AWR-140-W). This course is available online through our web site at <http://www.ctosnnsa.org>; select the CTOS Web Campus link to register.

<sup>1</sup>This is a "live agent" course using actual radioactive and nuclear materials. This course is designed and monitored so that attendees receive only minor radiation doses (lower than a chest X-ray or a typical round-trip airline flight across the U.S.).



*After rescuing victims of an RDD attack, responders detect radioactive contamination in a subway car.*



*A responder checks for safe radiation levels in a bus after a simulated RDD attack on a metropolitan bus station.*



*Responder team prepares to assess the scene after a simulated terrorist attack involving radioactive medical devices in a hospital.*

### Target Audience:

- ◇ Law Enforcement
- ◇ Emergency Medical Services
- ◇ Emergency Management
- ◇ Firefighting
- ◇ Hazardous Materials (HazMat)
- ◇ Public Works
- ◇ Governmental Administrative
- ◇ Public Safety Communications
- ◇ Medical
- ◇ Public Health
- ◇ Other skilled support personnel that provide immediate support services during prevention, response, and recovery operations



Responders check the buildings surrounding the scene of a simulated RDD attack on a metropolitan bus station.



Responders measure radiation and contamination levels in a clandestine lab at a simulated terrorist safe house.

### Certificate:

A certificate will be issued upon successful completion of the course, acknowledging 2.4 continuing education units (CEUs) sponsored by the University of Nevada, Las Vegas. Upon request, CTOS can provide a letter verifying course completion and eligibility for CEUs.

### Cost:

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

### Course Scheduling:

Coordination between CTOS and the hosting jurisdiction is required at least 8 weeks prior to course delivery.

### Enrollment Information:

In order to attend a scheduled training class, contact CTOS for further information.

### Eligibility:

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

### Course Delivery:

The course is delivered by a Mobile Training Team at the participants' location.

For More Information, Contact CTOS at:  
National Nuclear Security Administration/Nevada Site Office  
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