

WMD Radiological/Nuclear Awareness Course

Min/Max Enrollment: 10/50

Hours: 6 hours

CEUs: 0.6

Format: Instructor-Led

DHS Course#: AWR-140,

Prerequisites: FEMA Student ID

Course Description

This course presents a WMD radiological/nuclear overview designed for first responders and other personnel who, in the course of their normal duties, are likely to be the first to arrive on the scene of a radiological/nuclear incident. It focuses on the basics of radiation, possible health effects, hazard identification, proper notification procedures, and the radiological/nuclear threat.

Course Objectives

Upon completing this course, participants will be able to:

- LIST the three basic components of an atom.
- DESCRIBE the differences between ionizing radiation and non-ionizing radiation.
- DEFINE radioactivity.
- STATE the four basic types of ionizing radiation.
- DESCRIBE the shielding materials and biological hazards for each of the four types of ionizing radiation.
- EXPLAIN the differences between exposure to radiation and the contamination from radiological material.
- IDENTIFY the three techniques for minimizing exposure to radiation and radioactive material as low as reasonably achievable (ALARA).
- LIST the four major sources of natural background and man-made radiation.
- STATE the average annual dose to the general population from natural background and man-made sources of radiation.
- DESCRIBE the purpose of radiation dose limits and the guidance for emergency doses.
- DESCRIBE acute radiation dose and chronic radiation dose and the possible effects of each.
- STATE the routes of entry by which radioactive material can enter the body.
- IDENTIFY placards, symbols, and colors that indicate the presence of radiological material.
- DESCRIBE circumstances indicating the need for additional resources during an incident.
- DESCRIBE protective measures and how to initiate actions to protect others.
- STATE the functions of radiation meters and dosimeters

- DESCRIBE how radiological weapons may be obtained by terrorists and the methods used to employ them.
- DESCRIBE the current threat posed by terrorists using WMD radiological material.

Target Audience/Discipline

Emergency Medical Services, Fire Service, Hazardous Materials (HazMat), Health Care, Law Enforcement, Public Health, Public Safety Communications, Public Works, Emergency Management

Eligibility

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

Certificate

A certificate will be issued upon successful completion of the course, granting 0.6 continuing education units (CEUs) through the University of Nevada, Las Vegas (UNLV). A letter verifying CEUs can be provided upon request by contacting CTOS at ctosnnsa@nv.doe.gov.

Cost

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

Compliance

This course enhances the competencies defined in National Fire Prevention 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

See Email



Introduction to Ionizing Radiation