

Chemical, Biological, Radiological, Nuclear and Explosives Training: SRNL-203-RESP

Decontamination

Exercise Description

This exercise involves predetermined personnel/victims, equipment, vehicles and roadways contaminated with radiological material due to a radiological emergency (post blast scenario, radiological accident/incident, etc.). These scenarios are designed to provide teams with “real-life” contamination situations and environments. The goal is to, with proper planning and survey techniques, detect, locate, and identify all radioactive contamination sources that are present, and assess and communicate any potential radiological hazards to affected personnel/victims, equipment, and environment. Following initial examination, teams should develop a plan and execute appropriate decontamination method(s) (graded approach based on the levels of contamination and the personnel/articles being decontaminated).

Exercise Tasks and Topics

The following tasks and topics can be addressed or tailored to the customers’ needs with training objectives:

- > Developing a survey plan considerate of designated areas based on total size of detection areas; detection equipment, available personnel, potential number of detection readings, identifications, communications, and interdiction elements; personnel safety, and the operating environment. This includes establishing Hot, Warm and Cold Zones for access control.
- > Selecting and donning appropriate protective clothing to control the spread of contamination
- > Implementing turn-back controls if applicable for high radiation/contamination rates at the provided exercise rate
- > Communicating survey results via team protocols using proper terminology for rates and units
- > Appropriate survey techniques to determine precise contamination locations
- > Assessing any potential threat of the contamination and source types
- > Mapping all contamination sources on the proposed target and developing a decontamination plan
- > Decontamination method(s) to remove contamination from target, minimizing the spread of contamination to the environment or other personnel
- > Exiting the Contamination Area in such a manner as to not spread contamination into designated clean areas, or onto themselves or others

Other tasks and topics may be addressed as requested based on the team’s protocols and procedures, and may include Reachback communications.



Radiation survey in decontamination line



Personnel decontamination

Completion

An evaluation report/assessment will be provided for each team's performance against the objectives.

Target Audience/Discipline

Secondary screeners such as law enforcement, EMS, fire services, HazMat or other personnel who may provide support services during prevention and deterrence of radiological/nuclear detection and interdiction operations

Location

A selected facility at the Savannah River Site (SRS) and the Savannah River National Laboratory (SRNL) in Aiken, SC; Federal Law Enforcement Training Center (FLETC) in Charleston, SC; or a designated venue at the customer's location

Compliance

Supports ANSI/IEEE N42.37-2006, American National Standard for Training Requirements for Homeland Security Purposes Using Radiation Detection Instrumentation for Interdiction and Prevention. Also supports National Preparedness Goal Core Capabilities for Response/Health and Safety; Interdiction and Disruption; On-scene Security and Protection; Operational Coordination; Physical Protective Measures; and Screening, Search, and Detection focusing on the CBRNE capabilities as part of a Prevent and Response Mission.

Enrollment Information

- Duration:** 1-2 days, dependent on team numbers and objectives
- Format:** Presentations, hands-on demonstrations, and evaluated exercises
- Prerequisites:** None
- Contact:** CBRNE_Training@srnl.doe.gov

For more information
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