

Chemical, Biological, Radiological, Nuclear and Explosives Training: SRNL-202-RESP

Radioactive Contamination Survey

Exercise Description

This exercise involves personnel conducting a survey of a facility, vehicle, or individual to detect, locate, and identify sources of radioactive contamination. A survey map detailing the findings will be completed and presented to the incident command for review and analysis. The exercise is conducted either within a facility, on an isolated vehicle, or on a predetermined individual or group of individuals consistent with the desired scenario. A variety of radiological sources is utilized and staged to simulate radioactive contamination (to include short-lived medical isotopes, exempt and accountable source quantities, as well as naturally occurring radiological material source types).

Tasks and Topics

The following tasks and topics can be addressed or tailored to the customer's needs with training objectives

- > Securing a facility of interest and developing a team plan for a survey and facility search
- > The impacts of higher-than-expected background radiation readings in and near the facility
- > Turn-back controls in face of high radiation rates at the provided exercise rate
- > The use of proper terminology for rates and units
- > The use of radiological instrumentation knowledge skills to perform isotopic identification of the source(s)
- > Determining any potential threat assessment of the source(s)
- > Incident Command and chain-of-command controls according to team requirements
- > Locating and identifying additional sources in the facility, if applicable

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



Contaminated roadway survey



Contaminated vehicle survey



Survey team

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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