

Chemical, Biological, Radiological, Nuclear and Explosives Training: SRNL-103-PREV

Radioactive Material Interdiction

Exercise Description

This exercise involves personnel conducting a “chokepoint” screening of people at a largely attended event, vehicles, or vessels in the attempt to detect, locate, and identify sources of radiation and/or radioactive contamination. The goal is to detect, locate, and identify all radioactive sources that are present, and assess and communicate any potential radiological threats. The exercise is conducted either at a facility entrance, on a roadway or parking lot, or a desired waterway location on a predetermined group of individuals, vehicles, or vessels consistent with the desired scenario. The exercise will be conducted with a variety of radiological sources available to be staged for the exercise to include short-lived medical isotopes, exempt and accountable source quantities, and naturally occurring radiological material source types to simulate both legitimate and illicit radioactive sources.

Tasks and Topics

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

- > Developing a chokepoint/interdiction screening plan considerate of designated areas based on total size of detection areas, detection equipment, available personnel, potential number of persons, vehicles or vessels to be screened, identifications, communications, and interdiction elements, personnel safety and the operating environment. This includes establishing and controlling the chokepoint.
- > Selecting appropriate screening instruments and equipment, and establishing primary and secondary screening areas
- > Team/department protocols for radiation alarm response to include team communication of results using proper terminology for rates and units
- > Appropriate survey techniques to determine precise source locations and use of radiological instrumentation knowledge skills to perform isotopic identification of the source(s)
- > Assessing any potential threat of the source(s)
- > Incident Command and chain-of-command controls according to team requirements
- > Based on protocols, actions to be taken if a suspected illicit source is detected
- > Proper ALARA techniques and contamination controls during screening

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



Survey techniques



Personnel entry inspection

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



Vehicle inspection

For more information
on CBRNE training, contact:

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