



Office of Counterterrorism  
and Counterproliferation

## Nuclear Incident Policy and Cooperation

### Course Content content:

- Response scenarios: Improved Nuclear Device (IND), Radiological Dispersal Device (RDD), Nuclear Power Plant (NPP) release
- Atmospheric and ground deposition modeling for radiological releases
- Radiological monitoring techniques to include aerial monitoring
- Health & Safety considerations and planning for emergency responders
- Population monitoring and public protection
- Radiological sample collection and processing
- Radiation data interpretation and assessment
- Use of Geographic Information Systems (GIS) in emergency response
- Data collection and storage

For nuclear or radiological emergency assistance, please contact the U.S. Department of Energy, Emergency Operations Center 24/7 at +1 202 586 8100



U.S. Department of Energy, National Nuclear Security Administration  
Office of Counterterrorism and Counterproliferation  
Office Nuclear Incident Policy and Cooperation

# International Consequence Management (I-CM)



## COURSE OVERVIEW

The International Consequence Management (I-CM) course is designed to present emergency response personnel with the tools and techniques required to develop and execute plans for responding to complex issues related to the release of radiological material. Established strategies will be presented that cover the response elements required to respond to radiological events. Additionally, interaction and coordination between emergency response elements will be explored.

Through discussion and practical hands-on applications, participants will gain knowledge and experience with topics such as prioritizing response needs, monitoring and sampling strategies, and data assessment methodology to assist in determining protective actions. Participants will also learn how radiological response activities and priorities may change depending upon the size and scope of the accident or incident.

The course features two distinct tracks.

**Track I, *Monitoring and Sampling***, features training and discussion related to the field element of radiological emergency response. In this track, the procedures and equipment used in the collection of environmental sample media, exposure rate measurements, and contamination surveys are illustrated. Instrumentation and sampling tools will be demonstrated and used by participants in the course.

**Track II, *Assessment***, is designed to engage radiological assessment scientists in discussion and instruction related to the assessment of data collected during a response. The participants in this track will gain insight into assessment methodologies used during various phases of a response as well as interactions between the other supporting response elements. Additionally, this track will cover spatial and temporal demonstration of data that is typically requested in a radiological event.

At the conclusion of the instruction period, a joint Tabletop Exercise will be conducted to include a scenario to be analyzed by all participants.



#### Quick Facts:

- Target audience: emergency response professionals, first responders, and scientists responsible for public safety during a radiological release
- Class size: 20–30 participants
- Length: 3.5 days (4.5 with translation)
- Focus: classroom lectures and practical problems for determining radiological consequences as well as hands on demonstrations of consequence management tools and equipment

#### Other Training Courses:

- Radiological Emergency Response
- Nuclear Security at Major Public Events
- Radiation Alarm Adjudication for Ports
- Emergency Operations Center Assistance
- Radiological Plume Modeling
- Geographic Information Systems
- Radiological Search in a Maritime Environment
- Medical Management of Radiation Injuries
- Exercise Development and Support

#### International Reachback Capabilities:

- TRIAGE (spectral analysis and advice)
- IXP (radiological plume modeling)
- REAC/TS (radiological medical assistance)

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### ***COURSE OBJECTIVES***

- At the conclusion of the course, participants will understand the methods and coordination necessary to respond, gather radiological data, and assess the consequences of the release.
- Emergency responders will have an understanding of how plans and response actions change as a radiological response transitions from an emergency phase to a recovery phase and the actions required to move the transition forward.

### ***FOR MORE INFORMATION PLEASE CONTACT***

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