



Office of Counterterrorism
and Counterproliferation

Nuclear Incident Policy and Cooperation

Course Content:

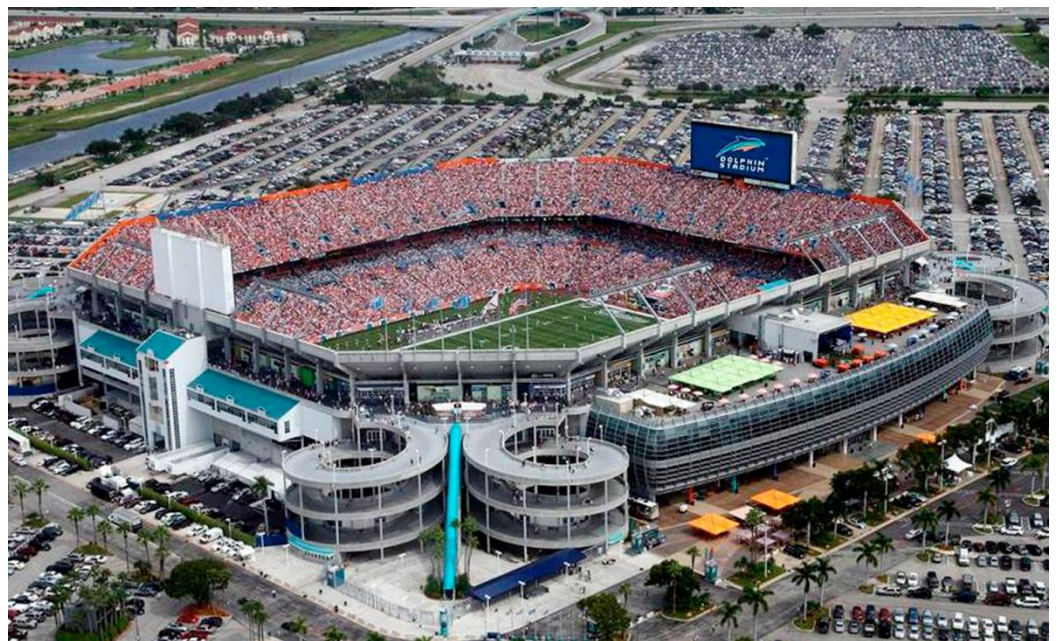
- Basic radiation principles
- Commercial and industrial radiation sources
- Radiation detector operation
- Detection instrumentation
- Concept of operations
- Mission planning and field operations
- Pre-event baseline surveys
- Source localization and pinpointing
- Checkpoint and portal monitoring
- Radionuclide identification
- Alarm adjudication with the DOE TRIAGE system
- Personal protection equipment
- Contamination surveys
- Source recovery

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 of Nuclear Incident Policy and Cooperation

International Radiological/Nuclear Training for Emergency Response – Major Public Events (I-RAD/MPE)

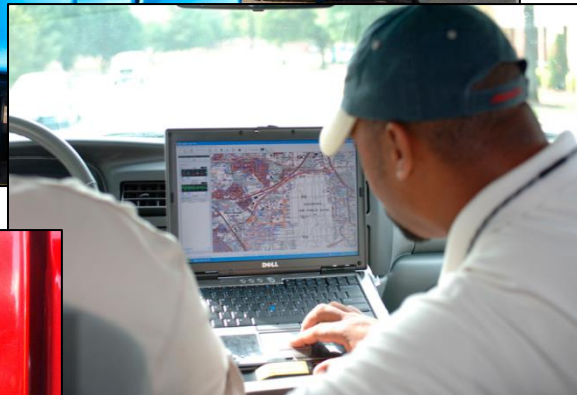


COURSE OVERVIEW

The International Radiological/Nuclear Training for Emergency Response – Major Public Event (I-RAD/MPE) is an advanced training course designed to provide international partners with specialized training for radiological emergency responder operations. The I-RAD/MPE course focuses on providing nuclear and radiological security at a Major Public Event. The training can be conducted as a train-the-trainer course to assist organizations in the development of an effective and efficient nuclear and radiological first responder program.

The course provides instruction through briefings, hands-on equipment demonstrations and field training exercises employing a wide range of

radiation detection instrumentation and radiation sources. Participants are encouraged to use their radiation detection instrumentation as part of the course. The course covers response methods for pre-event baseline surveys, event pedestrian and vehicle portal monitoring, radiological emergency response and source recovery. Training includes techniques and procedures in radiation source detection, localization and pinpointing, radionuclide identification and alarm adjudication procedures. A session on contamination surveys and source recovery is included. At the conclusion of the course, participants will have practical knowledge and experience to provide radiological security at Major Public Events.



COURSE OBJECTIVES

- To improve emergency responder preparedness against nuclear or radiological threats and emergencies at Major Public Events
- To improve emergency response actions and operations to nuclear or radiological incidents and accidents at Major Public Events
- DOE instructors/facilitators are experienced health physicists, scientists, and radiation emergency response personnel from the U.S. Department of Energy national laboratories. The I-RAD/MPE course typically lasts 4.5 days and can be conducted in English or with translation. Participating organizations are encouraged to bring their radiation detection instrumentation for incorporation into the class demonstrations and exercises. The course content can be customized to meet specific needs.

FOR MORE INFORMATION PLEASE CONTACT

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Quick Facts:

- Target audience: first responders, security personnel, radiation specialists, and emergency managers responsible for radiological emergency response
- Class size: 20–25 participants
- Instructors/facilitators: 4–6
- Length: 4.5 days
- Location: best taught with access to a large stadium or similar venue for training and field exercises
- Focus: classroom lectures, hands-on equipment demonstrations, and field exercises

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
- Consequence Management
- Exercise Development and Support

International Reachback Capabilities:

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

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