



Office of Counterterrorism
and Counterproliferation

Nuclear Incident Policy and Cooperation

Course content:

- Practical radiation health physics for emergency personnel
- Basic radiation instrumentation
- Effective radiological contamination containment techniques
- Video demonstrations focused on radiological decontamination techniques
- Signs and symptoms of acute radiation exposure
- Diagnosis and treatment of radiation injuries and illnesses
- Management of internal radiological contamination
- Demonstrations using radiological surveys for patient screening
- Pre-hospital and hospital radiation management procedures and best practices
- Capstone Exercise

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

Virtual International Medical Management of Radiation Injuries (IVirt-MED)



COURSE OVERVIEW

The IV-MED is an abridged online version of the I-Med on-site course. The increasing use of radiological materials in many industrial, medical, and commercial applications creates an increased potential for radiation-related injuries. Treating radiation injuries, especially when combined with non-radiation injuries in a patient who may be contaminated, presents unique challenges to health care providers.

The IV-MED course is designed to teach participants how to respond to medical emergencies involving radiation exposure/contamination and how to improve the treatment and care of the injured. The course is applicable to hospital and pre-hospital responders and providers and stresses the integration of professional medical care, radiation protection, and health physics. The course consists of a combination of lectures, demonstrations and exercises.

Emphasis of course content is on the medical treatment of the patient and methods to reduce the risk of radiation exposure and contamination to both the patient and health care provider.

The facilitators for this course are experienced physicians, nurse/paramedics, and health physicists from the U.S. Department of Energy's Radiation Emergency Assistance Center/Training Site (REAC/TS). REAC/TS was created in 1976 to provide professional subject matter expertise on the medical management of radiation injuries.

All participants are required to have a computer with sound, a microphone, and reliable internet service.



Quick Facts About IV-MED:

- Target audience: physicians, nurses, pre-hospital medical providers, and health physicists with the responsibility for responding to radiation medical emergencies
- Facilitators: 3 (physician, nurse/paramedic, and health physicist)
- Length: 3 days, 3 hours a day
- Virtual training

Other Training Courses:

- International Medical Management of Radiation Injuries (I-MED)
- International Radiological / Nuclear Training for Emergency Response (I-RAD)
- Nuclear Security at Major Public Events
- Emergency Operations Center Assistance
- Radiological Plume Modeling
- Geographic Information Systems
- International Maritime Advanced Radiological Search Operations
- Consequence Management
- Exercise Development and Support

International Reachback Capabilities:

- TRIAGE (spectral analysis, advice, and consultation)
- IXP (International Exchange Program) for radiological plume modeling
- REAC/TS (Radiation Emergency Assistance Center/Training Site) for radiological medical assistance and consultation

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COURSE OBJECTIVES

- Improve the treatment and care of radiation injuries and illnesses caused by nuclear or radiological incidents or accidents
- Protect medical personnel involved in treating radiation injuries
- Diminish the spread of radioactive contamination during patient transport and treatment

REAC/TS CONSULTATION

REAC/TS physicians, nurse/paramedics, and health physicists are on call 24 hours a day to provide consultation services or direct medical support during emergency incidents. The REAC/TS maintains a cytogenetic biodosimetry laboratory for clinical determination of dose levels received by an individual in a radiation incident or accident. REAC/TS is also registered in the IAEA's Response and Assistance Network (RANET). REAC/TS emergency consultation and assistance can be requested through the DOE Emergency Operations Center at +1 (202) 586-8100.

Downloadable resources are available at the REAC/TS website at <https://orise.orau.gov/reacts/> and by downloading the REAC/TS RadMed App for IOS and Android

FOR MORE INFORMATION PLEASE CONTACT

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