



# Medical Effects of Ionizing Radiation Standard Course

Fort Benning, Ga.  
22–24 April 2008



22 April 08 (Tues., day 1)		Min.	Instructors
0745–0800	<b>Administrative processing</b>	15	Staff
0800–0850	<b>Introduction</b> Discuss AFRRRI's radiological program, show "Radiological Terrorism" clinician's training film, and provide an overview of MEIR course.	50	TBD; CDC film
0850–0900	Break	10	
0900–0950	<b>Nuclear/Radiological Threats</b> Introduce and discuss the nuclear/radiological threat environment.	50	Mr. Bob Woodruff
0950–1000	Break	10	
1000–1100	<b>Physical &amp; Biological Principles of Ionizing Radiation</b> Describe the process by which radiation interacts with matter and tissue and its effect on biological systems.	60	Maj Ross
1100–1200	Lunch	60	
1200–1250	<b>Nuclear Weapons Effects</b> Explain the effects and hazards of the blast, thermal energy, and fallout characteristics released from a nuclear detonation.	50	Maj Ross
1250–1300	Break	10	
1300–1350	<b>Radiation Dispersal Devices</b> Describe what RDDs (e.g., "dirty bombs") are and what can be done about them.	50	Mr. Woodruff
1350–1400	Break	10	
1400–1500	<b>Management of Internal Contamination</b> List the methods for removal of internally deposited radioactive materials in the body.	60	TBD
1500–1510	Break	10	
1510–1600	<b>Introduction to Radiac Equipment</b> Describe fundamental radiac operations and conduct hands-on surveys to identify sources/contamination.	50	Mr. Woodruff, Maj Ross



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23 April 08 (Wednes., day 2)		Min.	Instructors
0800–0850	<b>Late Effects of Ionizing Radiation</b> Explain long-term, low-level, and chronic high-dose sub-lethal exposures of ionizing radiation.	50	Maj Ross
0850–0900	Break	10	
0900–0950	<b>Acute Radiation Syndrome &amp; Trauma I</b> Recall the underlying causes of radiation sickness. Explain the treatments available for persons affected by radiation sickness and treatments being developed.	50	TBD
0950–1000	Break	10	
1000–1050	<b>Acute Radiation Syndrome &amp; Trauma II</b> Continuation of Acute Radiation Syndrome & Trauma from previous lecture.	50	TBD
1050–1100	Break	10	
1100–1150	<b>Radiation Accident Experiences</b> Discuss the effects of high levels of radiation exposure, both locally and systemically, in radiation accident victims.	50	Mr. Woodruff
1150–1300	Lunch	70	
1300–1330	<b>Online Radiation Resources and the Biodosimetry Assessment Tool (BAT)</b> Explain how the Biodosimetry Assessment Tool software program can provide diagnostic information on radiation casualties. Demonstrate available resources.	30	Maj Ross
1330–1340	Break	10	
1340–1410	<b>AFRRI MRAT and Special Teams</b> Describe the functions and response roles of the DoD and Federal Special Teams.	30	Mr. Woodruff
1410–1440	<b>Protective Action Guides</b> Explain actions/advice for public health protection and dose minimization.	30	Maj Ross
1440–1450	Break	10	
1450–1540	<b>Preparation Time for Group Tabletop Exercise Scenarios</b> Review resources, then groups meet to prepare for the exercise on the last day.	50	All instructors



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24 April 08 (Thurs., day 3)		Min.	Instructors
0800–0820	<b>Post-Course Exam</b>	20	Staff
0820–0830	Break	10	
0830–0920	<b>Psychological Factors of Ionizing Radiation</b> Describe psychological reactions of populations who are exposed to the effects of a nuclear detonation, and both real and perceived widespread radionuclide contamination.	50	TBD
0920–0930	Break	10	
0930–1030	<b>Group Tabletop Scenario-Driven Exercise</b> Groups present scenarios with staff critique. Presentation of NNMC Mass Casualty exercise video.	60	All instructors
1030–1040	Break	10	
1040–1110	<b>Course Summation and Critiques</b>	30	Staff