



# Pennsylvania State Fire Academy

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## Minimum Standard for Accreditation (MSA)

Revised June 28, 2004

### MINIMUM STANDARDS FOR ACCREDITATION

**Course Title:** Radiological Response Team Refresher Course (RRTRC)

**Course Code:** RRTRC

**Length of Course:** 8 hours

**Lecture/Lab Breakdown:** 6.5/1.5

**Prerequisites:** *HMRRT Initial or RRTINT Course*

**Course Goal:** The objective of the RRT Refresher Course is to provide the participants with the skills to function as Radiological Response Team members. They will be able to provide guidance to hazardous material responders during a radiological response in an actual radiological material(s) (RAM) incident/event or exercise. Participants will be able to provide essential information to the Radiological Officer, Hazardous Material Officer, Operations Officer, or the Incident Commander when warranted.

**Description of Course:** Provide participants with an understanding of the roles and responsibilities of radiological response team members, describe the framework within which the radiological response team functions, provide fundamental knowledge of radiation and its affects, proper initial assessment/size-up procedures for a RAM incident.

**Description of Methodology to be used:** Lecture, discussion, practical exercises.

**Student Equipment/Supply Needs:** DOE Modular Emergency Radiological Response Transportation Training (MERRTT) 2004 Student Workbook, current Emergency Response Guidebook, DOT P5800.4, DOE 2004 Radioactive Material Shipment Quick Reference Sheet, and FEMA Transport of Radioactive Material – Q&A About Incident Response Pocket Guidebook

**Equipment/Audiovisual/Supply Requirements:** DOE Modular Emergency Radiological Response Transportation Training (MERRTT) 2004 Instructor Workbook, "The Transportation of Radioactive and Other Hazardous Material... Safety Our Prime Concern" FEMA VT 326.1; "Step by Step .... The Transportation of Radioactive and Other Hazardous Materials" FEMA VT 326.3; "Highway Shipments of Spent Nuclear Fuel" FEMA VT 326.4; "Ionizing Radiation and its Biological Effects"

**Special Notes & Conditions:** **Maximum class size for this course is 30 students; no exceptions.** Approved PEMA Radiological Instructors must notify the State Training Office at 717-651-2001 and prepare at TAR-1 form when setting up this course. For any class over 15 students, a second instructor is required for Day 1 and Day 2. Upon completion of the course, instructors must send in rosters and evaluation sheets to: PEMA Training Office, 2605 Interstate Drive, Harrisburg PA 17110. Questions concerning content or administration can be directed to Tom Hughes, PEMA Radiological Officer at 717-651-2231 or [thughes@state.pa.us](mailto:thughes@state.pa.us)

### COURSE OUTLINE

#### **Radiological Response Team Modules (Initial Training) Time**

	Registration, Introduction, and Overview	20 min
1.	Radiological Basics (Mod 2)	30 min.
2.	Biological Effects of Ionizing Radiation (Mod 3)	30 min.
3.	Hazard Recognition (Mod 4)	30 min
4.	Initial Response Actions (Mod 5)	30 min.
5.	Radiological Material Shipping Packages (Mod 6)	45 min.
6.	Patient Handling (Mod 7)	45 min.
7.	Radiation, Terminology and Units (Mod 8)	40 min.
8.	Incident Control (Mod 9)	30 min.
9.	Radiological Survey Instruments & Dosimetry (Mod 10)	30 min.
10.	Assessing Packaging Integrity (Mod 11)	30 min.
11.	Decontamination, Disposal, & Documentation (Mod 13)	30 min.
12.	Radiological Instrumentation Use: Exercise 1 (Mod 19)	30 min. *
13.	Assessing Package Integrity: Exercise 2 (Mod 21)	30 min. *
14.	Survey of Potentially Contaminated Personnel (Mod 22)	30 min. *
	<b>Total</b>	<b>8.0 hours</b>

**\*Students must complete all 3 hands-on exercises to successfully complete this course**

**Competency Evaluation Mechanism (brief description – attach copy):** Each module has a quiz and then students will need to take a final facilitated exam; instructor conducted evaluation procedures for practical exercises. A minimum test score of 70% is required to enable course attendees to receive a US DOE, PEMA or State Fire Academy Certificate of Training. All testing is required as part of this MSA.

**Course Objective (specific):** Upon completion of this course, the trainee will:

- 1) Have a working knowledge in radiation protection concepts
- 2) Identify potential radiological hazards
- 3) Institute proper protective actions
- 4) Operate county owned radiological response equipment and issue and monitor personal dosimetry
- 5) Conduct support planning for emergency and recovery activities in the event of a radiological incident or exercise
- 6) Ensure written documentation, such as the On-Scene Chronology Report, Dosimetry-KI Report Form, Dosimetry/Survey Meter Receipt Form, Emergency Worker Authorization Form, has occurred.

RRTRC04

**Questions/Comments: Contact the Curriculum Specialist**

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