



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

Revised 1/06

MINIMUM STANDARDS FOR ACCREDITATION

Course Title: **Radiological Response Team Initial Course** (*formally Fundamentals Course for Radiological Response Team Members (FCRRT)*)

Course Code: RRTIC

Length of Course: 16 hours

Lecture/Lab Breakdown: 14.00 / 2.00

Prerequisites: *FEMA Independent Study (IS-3) Radiological Emergency Management and FEMA Independent Study (IS-100) Basic Incident Command System*

Course Goal: The objective of the RRT Initial Course is to provide the participants with the skills to function as Radiological Response Team members. They will be able to provide guidance to radiological 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 effects, proper initial assessment/size-up procedures for a RAM incident.

Description of Methodology to be used: Lecture, discussion, practical/hands-on exercises.

Student Equipment/Supply Needs: DOE Modular Emergency Radiological Response Transportation Training Student Workbook, current North American Emergency Response Guidebook, DOT P5800.4, DOE 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) Instructor Workbook, “The Transportation of Radioactive and Other Hazardous Material... Safety Our Prime Concern” FEMA VT 326.1; Pre-Hospital VT 320; Hazardous Material Awareness: Response to Rail Accidents” 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” FEMA VT 326.5 (323); Radiological Assessment Case Study & Exercise” FEMA VT 326.6.

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 a 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

COURSE OUTLINE

Day 1 - Radiological Response Team Modules (Initial Training)	Time
1. Registration, Introduction, and Overview (Module 0)	30 min
2. US Department of Energy Shipments & Resources (Module 1)	30 min.
3. Radiological Basics (Module 2)	30 min.
4. Biological Effects (Module 3)	30 min.
5. Hazard Recognition (Module 4)	30 min.
6. Initial Response Actions (Module 5)	30 min.
7. Radioactive Material Shipping Packages (Module 6)	30 min.
8. Patient Handling (Module 7)	30 min.
9. Radiation, Terminology and Units (Module 8)	40 min.
10. Scene and Incident Control (Module 9)	20 min.
11. Survey Instruments & Dosimetry Devices (Module 10)	35 min.
12. Assessing Packaging Integrity (Module 11)	25 min.
13. Waste Isolation Pilot Plant [WIPP] (Module 12)	60 min.
14. Course Exam; Exam Review	60 min.
Total	(480 min.) 8 hrs.

Day 2 - Radiological Response Team Modules (Initial Training)	Time
1. Day 1 Refresher/RAM Transportation Video (Module 00)	50 min.
“Emergency Response to Transportation Accident Involving RAM” (17.5 min.)	
2. Decontamination, Disposal and Documentation (Module 13)	30 min.
3. Radiological Instrument Use – Practical Exercise 1	50 min.
4. Patient Handling & Survey – Practical Exercise 2	50 min.
5. Transportation by Rail (Module 14)	30 min.
6. Transportation of Safeguard Material (Module 15) & Video (15 min.)	50 min.
7. Pre-Hospital Practices (Module 16) & Video “Pre-Hospital Practices for Handling a Radiologically Contaminated Patient” (12 min.)	35 min.
8. Incident Command for a RAM Incident	25 min.
9. Public Information Office Overview for a RAM Response	25 min.
10. Assessing Package Integrity – Practical Exercise 3	35 min.
11. Contaminated Personnel – Practical Exercise 4	40 min.
12. Field Practical Exercise <u>or</u> Tabletop Exercise	50 min.
13. Exercise Review/Lessons Learned/Course Administration	10 min.
Total	(480 min.) 8 hrs.

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 CDV 700/715/718/750 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.