



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

Revised February 2, 2000

Course Title: *Radiological Response Team Refresher Course* (formally Refresher Course for Radiological Response Team Members (RERT))

Length of Course: 6 hours

Lecture/Lab Breakdown: 3.75 /2.25

Prerequisites: *Radiological Response Team Initial Course*

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 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.

IMPORTANT NOTICE: Maximum class size for this course is 30 students; **no exceptions.**

Student Equipment/Supply Needs: DOE Modular Emergency Radiological Response Transportation Training Student Workbook, 1996 North American Emergency Response Guidebook, DOT P5800.4, DOE Response Wheel for Radioactive Materials, REAC/TS 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 Emergency Response to Radiological Accident VT 320, August ‘95; 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.

Continued

COURSE OUTLINE

| <u>Radiological Response Team Modules (Refresher Training)</u> | <u>Time</u> |
|---|--------------------|
| Registration, Introduction, and Overview | 45 min. |
| 1. Radiological Basics | 15 min. |
| 2. Biological Effects of Ionizing Radiation | 15 min. |
| 3. Hazard Recognition | 15 min. |
| 4. Initial Response Actions | 15 min. |
| 5. RAM Shipping Packages | 30 min. |
| 6. Patient Handling | 30 min. |
| 7. Notifications & Resources | 15 min. |
| 8. Scene and Incident Control | 15 min. |
| 9. Radiation, Terminology and Units | 30 min. |
| 10. Radiological Instrumentation | 30 min. |
| 11. Assessing Packaging Integrity | 15 min. |
| 12. Tabletop Exercise | 45 min. |
| 13. Full Field Exercise | 90 min. |
| Total | 6 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 recommended to enable course attendees to receive a PEMA or State Fire Academy Certificate of Training.

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.

**Questions/Comments: Rita Wessel, Curriculum Specialist: Extension 106
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