

# Program of Instruction

## Course Syllabus

**Course Title:** Hazardous Materials Technician: Radiation Refresher

**Course Duration:** 8 Hours

**Program:** Special Operations Training Program

**Course Prerequisites:** Hazardous Materials Technician

**Course Description:** Special Operations Training Program Refresher Courses provide hands on training at the technician level. Participants will have the opportunity to refresh critical skills through classroom review, drills and/or scenario exercises. This course covers a review of radiological emergencies and decontamination, as well as practical exercises to determine the presence and amount of radiation present.

**Course Requirements and/or Recommendations:** These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

### Summary of Directions

Pre-Course Work: None

Course Work: Attend and participate in lectures and class activities.

Post-Course Work: None

### **Course Policies:**

**Safety Policy:** Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

**Academic Integrity Policy:** IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

**American Disabilities Act:** As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs.

## Course Content:

### Module: Radiation Refresher

1. Identify the different types of ionizing radiation.
2. Differentiate between ionizing and non-ionizing radiation.
3. Define background radiation.
4. Identify the difference between exposure and contamination.
5. Identify protective action options for dealing with radiological emergencies.
6. Demonstrate the proper operation of monitoring equipment that indicates the presence of radiological materials.

## Class Schedule

Introductions, who's who, teams represented, equipment, etc.	30 minutes
Lecture – Radiological Emergencies	1 hour
Lecture – Radiological Decontamination & Video	1 hour
Review of Radiological Meter Operations – Team Equipment	1 hour
<b>Lunch</b>	
Radiological Monitoring Practical (Easter Egg Hunt)	1 hour 30 minutes
Rad Incident	2 hours
Clean up, Wrap up, CEQ's, Go Home	1 hour