



## DOE/IAFF FIRST RESPONDER RADIATION EMERGENCIES AWARENESS TRAINING

This course provides essential training for health and safety protection when responding to radioactive materials incidents and hazardous materials emergencies. This course also provides refresher operations awareness training, as well as in-depth training in radiation, to fire fighters who are currently trained to the National Fire Protection Association (NFPA) Standard for Professional Competence for Responders to Hazardous Materials (NFPA 472). All other interested emergency responders, professionals, building officials, and parties are welcome. This course is taught over two days.

*TOTAL TIME: 16 HOURS*

### RAD-0304 SCHEDULE

#### DAY 1

- Introduction
  - Types of Alarms
  - Health and Safety
  - General Precautions
  - Medical Surveillance
- Recognition, Identification, and Detection
  - Recognition and Identification
  - Occupancy and Location
  - Placards, Labels, and Markings
  - Container Shapes and Designs
  - Shipping Papers
  - Facility Documents
- Chemical Properties
  - States of Matter
  - Chemical Properties
- Introduction to Radioactive Materials
  - Introduction
  - Radiological Terms
  - Exposures
  - Protecting Your Health and Safety
  - Packaging, Transportation, and Storage
  - Packaging
  - Transportation
  - Storage



## DAY 2

- Radiation Emergencies
  - Initial Response
  - Detecting Radiation Hazards
  - Treating Patients
  - Controlling and Reporting Hazards
- Personal Protective Equipment
  - Types of Protective and Respiratory Equipment
  - Decontamination
- Scene Management
  - Incident Management Systems
  - Establishing a Hazard Area
  - The Media
  - Termination
- Pre-Incident Planning
  - Introduction
  - Hazard Identification
  - Hazard Analysis and Risk Assessment
  - Analysis of Resources
- Case Studies
- Review
- Test
- Solutions
- Course Evaluation

A one-hour lunch break is provided each day.

All students may receive:

- Seminar Workbook
- United States Department of Energy (DOE), Fluor Daniel, and the Hazardous Materials Department of the International Association of Fire Fighters (IAFF) Modules
- Handouts
- Certificate of Completion (to participants who achieve 80% or higher on the final test)
- Certificate of Attendance (to participants who do not achieve 80% or higher on the final test)

Students must be present for the entire duration of the class to receive a certificate.

ESRA Consulting Corporation  
1650 South Dixie Highway • Boca Raton, Florida 33432  
telephone: (561) 361-0004 • fax: (520) 844-8555  
http://www.esracorp.com • e-mail: registration@esracorp.com



## REGISTRATION

Full Name: \_\_\_\_\_

Title/ Position: \_\_\_\_\_

Name Tag: \_\_\_\_\_

Company/ Institution/ Organization: \_\_\_\_\_

E-mail: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Billing Addressee: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Shipping/ Mailing Address: (where ESRA will send receipt and confirmation)  
Check if *same as above*: \_\_\_\_\_

\_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Course Title: \_\_\_\_\_

Course Number: \_\_\_\_\_ - \_\_\_\_\_ Dates of Preference \_\_\_\_\_ 2005

Location \_\_\_\_\_

Payment Total: US \$ \_\_\_\_\_

Payment Type: \_\_\_\_\_ Check (payable to ESRA) \_\_\_\_\_ Money Order

**Fax this form to: (520) 844-8555**

**Send payment to:** ESRA Consulting Corporation  
Training Division  
1650 South Dixie Highway, Third Floor  
Boca Raton, Florida 33432

**Payment is due 15 days prior to the course date.**

**Cancellation Policy:** The course fee (minus a \$100 handling charge) will be refunded for cancellation notice received fourteen (14) days prior to the course date. The fee is transferable to another course within twelve (12) months after that date.

**Other Terms and Conditions:** In an effort to commit to the highest quality services, ESRA requires groups to have a minimum of ten (10) people per course. Additional charges apply to other locations, including corporate sites, outside the Boca Raton, Florida areas. Please call (561) 361-0004 for further details.