



Missouri Department of Public Safety State Fire Marshal

Air Monitoring for Hazardous Materials Technicians

March 7 – 9, 2012 • 0800 – 1700

Springfield Fire Department • Station 12
2455 S. Blackman Road
Springfield, MO 65809-3404

Register online

www.responsetechnologies.com/calendar.asp

See “How to Register for a Seat” below

Program Goal:

This program is designed to provide the participants with an understanding of the principles and proper use of air monitoring and analytical equipment during hazardous materials emergency response. The program steps the participant through the hazard assessment, dispersion prediction and verification process necessary for effective air monitoring operations. Once students are provided with the essential basic understanding of the principles, they are then provided with opportunities for hands-on application during both tabletop and simulation settings. Topics include:

Basic Principles

- Chemistry related to air monitoring
- Establishing action levels
- Instrument factors and inherent safety
- Field maintenance and documentation
- Application of air monitoring strategy

Common Instruments and Applications

- Radiological detection
- Gamma Spectroscopy
- Multi-gas catalytic and electro chemical
- Instrument calibration procedures

Toxicity Monitoring

- Exposure limits and calculations
- Ionization (Photo/flame)
- Colorimetric devices
- Biological presumptive testing

Advanced Instruments

- Ion Mobility Spectrometry
- Surface Acoustical Wave (HazMat CAD)
- Vibrational Spectrometry (FTIR & Raman)
- Other locally applicable technologies

Target Audience:

The target audience for this program includes emergency response personnel responsible for the implementation of air monitoring procedures and the analysis of unidentified hazardous materials during incidents involving the release of potentially hazardous substances. Both active hazardous materials technicians and those persons studying for such a position will benefit from this program. Although attendance in a basic field hazardous materials chemistry program is helpful, it is not a prerequisite for this class.

Program Cost:

This program is provided by the Missouri State Fire Marshal's Chemical Emergency Preparedness fund, and is free of charge to fire fighters and hazardous materials responders..

How to Register for a Seat:

Seating for this program is limited to 24 persons. Priority shall be given to public sector emergency response personnel. Register online at the Response Technologies website at <http://www.responsetechnologies.com/Calendar.asp>. Select the “Register Now” link next to the class desired and complete the requested information. If you have questions or, if you need to cancel a previously made registration, please contact Response Technologies at 941-371-7849 or by email at info@responsetechnologies.com.