



SU-905

Nuclear Radiological Detection for Emergency Response

DESCRIPTION

Since radiation is not detectable with our natural senses (see, taste, feel, hear, and smell), we need a device that can detect radiation for us. This course will teach you how radiation detectors work and what types of detectors are available. The class will also cover what type of detector is used for specific types of radiation. It will answer common questions like – will my detector support my mission; is there one detector that does it all; why do you need a detector; can this detector protect you, etc.

HOW YOU WILL BENEFIT

The goal of this course is to provide the student with an understanding of radiation and different detectors, and how to use this knowledge to be prepared for nearly any type of radiation incident. They will learn how detectors function and what the detector is telling them from the readout. They will also gain a good understanding of the capabilities and limitations of various types of detectors. Students are welcome to bring their own detectors with them and ask the instructor questions about them. They can also use their own detectors in the hands-on portion of the class.

WHO SHOULD ATTEND

Emergency response organizations; local and federal agencies; military, health departments, government, etc.; any individuals or organizations concerned about this subject.

COURSE CONTENT

- ✓ Why is a detector needed?
- ✓ Types of Detectors
 - Gas-filled
 - Scintillation
 - Semi-conductor
- ✓ Detector Purpose
 - Daily security operations
 - Survey
 - Screening – primary and secondary
 - Contamination
 - Personnel monitoring
- ✓ Factors affecting detector selection
- ✓ Detector readout display
 - Analog
 - Digital
- ✓ Preoperational/Operational/Post-operational
- ✓ Know the detectors capabilities and limitations
- ✓ Hands-on practical use with detectors
- ✓ Case Studies

PREREQUISITES

Basic understanding of radiation.

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