

**TITLE: Municipal Emergency Response**

**TARGET POPULATION:** This program is intended for first-responder personnel who will perform at the Operations Level at hazardous materials incidents.

**OVERALL LEARNING OBJECTIVES:**

- Recognize a hazardous incident
- Evaluate the situation.
- Implement Control of the Situation.

**Unit 1: Recognition**

**CHAPTER 1: RIGHTS AND RESPONSIBILITIES – MAJOR CONTENTS**

- OSHA Act
- HAZWOPER
- Emergency Planning and Community Right-to-Know Act
- Emergency Planning and Incident Preparedness

**CHAPTER 2: HEALTH EFFECTS OF HAZARDOUS MATERIALS – MAJOR CONTENTS**

- Health Problems in the Fire Service
- How Toxic Substances Enter the Body
- How Chemicals Affect the Body
- Protective Measures

**CHAPTER 3: RECOGNITION OF HAZARDOUS MATERIALS – MAJOR CONTENTS**

- Department of Transportation Hazard Classifications
- Six Clues for Detecting Hazardous Materials
- **Hazard Recognition Exercise**

**CHAPTER 4: SOURCES OF INFORMATION – MAJOR CONTENTS**

- Reference Books on Hazardous Materials
- Resource Organizations

**CHAPTER 5: CHEMICAL HAZARDS – MAJOR CONTENTS**

- Basic Principles
- Chemical and Physical Characteristics
- The Fire Triangle
- The Fire Tetrahedron
- Radioactivity

**Unit 2: Evaluation**

**CHAPTER 1: MONITORING – MAJOR CONTENTS**

- The Importance of Monitoring
- Hazards that May be Monitored
- Measures of Concentration
- Types of Monitoring
- Advantages and Limitations of Direct Read Instruments

**CHAPTER 2: SURVEILLANCE – MAJOR CONTENTS**

- Elements of a Medical Surveillance Program
- When to Provide Medical Surveillance
- Limitations of Medical Surveillance

**Unit 3: Control****CHAPTER 1: STANDARD OPERATING PROCEDURES – MAJOR CONTENTS**

- Importance of Standard Operating Procedures
- Subjects Addressed by SOPs for Hazardous Materials Incidents
- SOPs for Risk Assessment
- Revising SOPs
- Organizational Factors

**CHAPTER 2: RESPIRATORS AND SELF-CONTAINED BREATHING APPARATUS– MAJOR CONTENTS**

- Use of Protective Breathing Apparatus for Emergency Response
- Types of Protective Breathing Apparatus
- Care and Cleaning of Protective Breathing Apparatus
- Factors in Selecting Protective Breathing Apparatus

**CHAPTER 3: PERSONAL PROTECTIVE EQUIPMENT – MAJOR CONTENTS**

- Need for Specialized Protective Clothing
- Applications, Use, and Limitations
- Levels of Personal Protective Equipment
- Applications, Use, and Limitations
- **Protective Equipment Exercise**

**CHAPTER 4: SCBA and PERSONAL PROTECTIVE EQUIPMENT LAB – MAJOR CONTENTS**

- PPE Inspection Checklist
- Sample Donning Procedures
- Sample Doffing Procedure
- **Performance Checklist**

**CHAPTER 5: INCIDENT MANAGEMENT -- MAJOR CONTENTS**

- Incident Command System
- Initial Actions
- Termination Procedures
- Accident and Spill Report

**CHAPTER 6: DECONTAMINATION – MAJOR CONTENTS**

- Need for Decontamination Procedures
- Types and Effects of Contamination
- Decontamination Methods
- Hazards of Decontamination
- Procedures for Decontamination
- **Decontamination Exercise**

**CHAPTER 7: HAZARDOUS MATERIAL CONTROL – MAJOR CONTENTS**

- Safety and General Consideration
- Confinement of Hazardous Materials Releases
- Containment of Hazardous Materials Releases
- **Confinement/Containment Exercise**

**CHAPTER 5: HAZARDOUS SPILL EXERCISE: BOARD INCIDENT**

- **Recognition**
- **Evaluation**
- **Control**