

TITLE: Treatment, Storage, and Disposal Refresher

TARGET POPULATION: Persons needing refresher training who are or who anticipate being employed at a treatment, storage, or disposal facility where they may be exposed to hazardous materials.

OVERALL LEARNING OBJECTIVES:

- Know basic information about governmental agencies and regulations that are relevant to your job at treatment, storage, or disposal facilities.
- Recognize the potential hazards on your job.
- Understand basic chemical properties, toxicology, and hazard identification systems.
- Review basic hazard control information including respiratory protection, personal protective equipment, and decontamination methods.
- Describe elements of an emergency response plan.

CHAPTER 1: INTRODUCTION – MAJOR CONTENTS

- **Introductory exercise**

CHAPTER 2: RIGHTS AND RESPONSIBILITIES – MAJOR CONTENTS

- Occupational Safety and Health Administration
- Superfund Amendments and Reauthorization Act
- Hazardous Waste Operations and Emergency Response Standard
- Hazard Communication Standard
- Occupational Health and Safety Act
- Rights and Responsibilities Under the OSHAct
- Resource Conservation and Recovery Act
- How to Contact OSHA
- How to Contact the EPA
- **Rights and Responsibilities Exercise**

CHAPTER 3: CHEMICAL PROPERTIES – BASIC CHEMICAL PROPERTIES

- Chemical Reactions
- Chemical and Physical Characteristics
- Fire Triangle: Fuel, Oxygen, and Heat
- Explosive Limits
- Radioactivity

CHAPTER 4: HEALTH HAZARD RECOGNITION – MAJOR CONTENTS

- Health Effects: How, When, and Where
- Factors that Influence the Body's Response to Chemical Exposure
- Clues Your Senses May Provide to Hazards
- Medical Surveillance

CHAPTER 5: HAZARD RECOGNITION – MAJOR CONTENTS

- Systems and Symbols
- **Placards and Labels Exercise**
- Documentation
- **Material Safety Data Sheet Exercise**
- Physical and Safety Hazards
- **Physical and Chemical Hazards Exercise**

CHAPTER 6: HAZARD CONTROLS – MAJOR CONTENTS

- Engineering Controls
- Administrative Controls
- Hazard Control Requirements for TSD Facilities
- Decontamination Procedures
- **Control of Physical and Chemical Hazards Exercise**

CHAPTER 7: MONITORING – MAJOR CONTENTS

- What Can Be Monitored in the Air?
- Exposure Levels
- Explosive Limits
- Lab Analysis Monitoring
- Real-Time/Direct-Read Monitoring
- Monitoring Instruments
- **Sampling Equipment Lab**

CHAPTER 8: RESPIRATORY PROTECTION – MAJOR CONTENTS

- **Exercise: Use of Respirators at Your Facility**
- Use of Respirators at TSD Facilities
- Types of Respirators
- Respirator Protection Factors
- **Exercise: Respirator Protection Factor Problems**
- Respirator Fit Tests
- Medical Fitness to Wear a Respirator
- Care of Respirators
- Minimum Requirements for a Respirator Program

CHAPTER 9: PERSONAL PROTECTIVE EQUIPMENT – MAJOR CONTENTS

- Personal Protective Clothing and Equipment
- Regulations Requiring Protective Clothing and Equipment
- Occupational Noise
- OSHA 1910.95
- Selection of Chemical-Protective Clothing (CPC)
- Levels of Protection
- Precautions When Wearing Protective Clothing and Equipment
- Permeation
- Inspection, Maintenance, and Storage of CPC
- **Exercise: Chemical-Protective Clothing Permeation**

CHAPTER 10: SAFE WORK PRACTICES – MAJOR CONTENTS

- **Exercise: Work Practice Control SOPs**
- Confined-Space Entry Procedures
- Lock-Out Procedures
- Fire Prevention
- Drum Handling
- Drum Sampling and Transfer Techniques

CHAPTER 11: EMERGENCY RESPONSE PLAN – MAJOR CONTENTS

- Legal Requirements for an Emergency Response Plan
- The Incident Command System
- Communication
- Levels of Training