

TITLE: Treatment, Storage, and Disposal Facility Personnel Training

TARGET POPULATION: This program is intended to meet the requirements of the OSHA Hazardous Waste Operations and Emergency Response Final Rule (1910.120) for TSD workers who may be exposed to hazardous materials.

OVERALL LEARNING OBJECTIVES:

- Know basic information about governmental agencies and regulations that are relevant to trainees' jobs at treatment, storage, or disposal facilities.
- Recognize the potential hazards on the job.
- Understand basic chemical properties, toxicology, and hazard identification systems.
- Understand 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**
- Training Program Content

CHAPTER 2: RIGHTS AND RESPONSIBILITIES – MAJOR CONTENTS

- Pyramid of Health and Safety Laws and Regulations
- Governmental Agencies
- Resource Conservation and Recovery Act (RCRA)
- Occupational Safety and Health Act
- Superfund Amendments and Reauthorization Act (SARA)
- Hazardous Waste Operations and Emergency Response (HAZWOPER)

CHAPTER 3: HAZARD RECOGNITION – BASIC CHEMICAL PROPERTIES

- **Case Study**
- Chemical Reactions
- Chemical and Physical Properties
- Fire Triangle and Fire Tetrahedron
- Explosive Limits
- Radioactivity
- More Specific OSHA Regulations

CHAPTER 4: HAZARD RECOGNITION – MAJOR CONTENTS

- Types of Hazards
- Recognizing Hazards: Labels, Placards, Symbols, and Markings
- Recognizing Chemical Hazards – Documentation
- Recognizing Physical and Safety Hazards

CHAPTER 5: HEALTH HAZARD RECOGNITION – MAJOR CONTENTS

- Factors that Influence the Body's Response to Exposure
- Acute and Chronic Effects
- Effects of Chemicals on the Body.
- Medical Surveillance

CHAPTER 6: HAZARD CONTROL – MAJOR CONTENTS

- Federal Regulations and Hazard Control
- Hazard Control Requirements for TSD Facilities
- Engineering Controls
- Administrative Controls
- **Hazard Control Exercise #1**
- **Hazard Control Exercise #2**

CHAPTER 7: WORK PRACTICES – MAJOR CONTENTS

- Routine SOPs
- Specific TSDF Work Practices --- Unloading/Loading Procedures
- Specific TSDF Work Practices – Drum Handling Procedures

CHAPTER 8: MONITORING – MAJOR CONTENTS

- Importance of Monitoring
- Uses of Monitoring Data
- What Can Be Monitored In the Air?
- Measures of Concentration
- Exposure Levels
- Explosive Limits
- Types of Air Monitoring
- Monitoring Instruments
- Selecting Monitoring Equipment
- Environmental Monitoring
- **Monitoring Exercise**
- **Monitoring Lab**

CHAPTER 9: RESPIRATORS – MAJOR CONTENTS

- Types of Respirators
- Respiratory Protection Factors
- Respirator Fit
- Medical Fitness to Wear a Respirator
- Facial Hair and Respiratory Protection
- Taking Care of Respirators
- Minimum Requirements for a Respirator Program
- Sample Respirator Program
- **Respiratory Protection Lab**

CHAPTER 10: PERSONAL PROTECTIVE EQUIPMENT – MAJOR CONTENTS

- Regulations Requiring Personal Protective Equipment (PPE)
- Chemical-Protective Clothing (CPC)
- Levels of PPE
- Precautions When Wearing CPC
- Precautions When Wearing Other PPE
- Permeation
- Inspection, Maintenance, and Storage of PPE
- **Exercise: Levels of PPE**

CHAPTER 11: DECONTAMINATION – MAJOR CONTENTS

- Preplanning for Decontamination
- Preventing Decontamination
- When Decontamination May Be Required
- Decontamination Methods

CHAPTER 12: EMERGENCY RESPONSE SOPS – MAJOR CONTENTS

- Relationship of RCRA and HAZWOPER
- RCRA Requirements of a Contingency Plan
- OSHA Requirements for an Emergency Response Plan
- Non-Emergency Spill Control
- **Exercise: Using an Emergency Response Plan**