HAZWOPER Technician Level

Course Outline

Prerequisites: This course is intended for learners who have already completed HAZWOPER Operations Level training.

Course Length: 8 hours – Course length shall vary depending on the number of learners. The total course time includes breaks.

Class Size: The maximum number of learners that may be trained and tested per instructor shall be thirty–five (35) in the classroom session.

Course Objective

- Recognize the roles and be able to function within an Incident Command System.
- Identify the elements of an Emergency Response Plan and how to implement them.
- Understand how to implement decontamination procedures.
- Describe hazard and risk assessment techniques.
- Discuss classification, identification, and verification of known and unknown materials, as well as basic chemical and toxicological terminology and behavior.
- Provide information on selecting and using specialized chemical personal protective equipment.
- Prepare to perform advanced control, containment, and confinement operations within available capabilities.
- Review termination procedures.
- Demonstrate knowledge through classroom activities and the written examination.

Course Design

- PowerPoint© / Lecture / Audio Video / Visual Aids
- Demonstrations

Successful Course Completion

- Requires a minimum score of 75% or better.
- Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
- Learners will have no more than thirty (30) minutes to complete the exam.

Course Content Summary

- Classroom
- Tabletop Exercise

Breaks: 10 minutes (approximately every hour)

Lunch: 1 Hour

HAZWOPER Technician Level

Course Outline

Course Outline

HAZWOPER Technician
- Operations Review
- Training Requirements and Responsibilities

Incident Command System
- Importance of the ICS
- ICS Roles

Emergency Response Plan
- Importance of an Effective Plan
- Other Employer Responsibilities: Illumination, Sanitation, New Technology

Medical Surveillance
- Medical Surveillance Program
- Regulatory Requirements

Decontamination
- Preventing Contamination
- Decontamination Plan
- Emergency Decontamination
- Standard Decontamination Layout
    - Contamination Reduction Zone
    - Equipment Decon Examples
    - Decontamination Line
- Basic Decontamination Set-Up
- Protection of Decon Line Personnel
- Decontamination Methods
    - Physical
    - Chemical
    - Considerations
- Effectiveness of Decontamination
- Waste Management
- Grey Water Collection
- General Decontamination Rules
    - Video – Decon

Hazard & Risk Assessment Techniques
- Hazard Recognition in an Emergency
    - Site Analysis
    - HAZWOPER Hazard Recognition Requirements
- Assessing Risk
    - Assessing Physical Risks
        - Boil-Over, BLEVE
        - Video – Burning Fire Risk Assessment Activity

    - Assessing Health Risks
        - Dose-Response Factors
        - Signs and Symptoms of Overexposure
        - Video – Toxicity Comparison

Material Identification, Classification & Verification

- Collecting Information
- Container Labels
    - Rating Systems: NFPA/HMIS vs GHS
- Safety Data Sheet
    - Activity: Practice using SDS
- Shipping Papers
- Placards
- Emergency Response Guide
    - Activity – Review and practice using the ERG
    - ERG Green-bordered Pages
    - ERG Emergency Response Phone numbers
- Other Ways to Collect Information
    - Video – Acid Spill Video

Air Monitoring

- Atmospheric Hazards
- Regulatory Requirements
    - Air Monitoring Purpose
- Variables in Site Monitoring
- Air Monitoring Equipment
    - Video – Bump Testing
- Hazardous (Classified) Locations
- Considerations for Monitoring
- Demonstration – Air Monitor

Personal Protection Equipment

- Review
- PPE Selection
    - Chemical Protective Clothing
    - Protective Glove Types
    - Specialized PPE
- Preventing Contamination
- PPE Donning & Doffing
- PPE Safety Considerations

Control, Containment & Confinement

- Spill Prevention, Control & Countermeasure Rule
- Size Up Strategy

- Secure the Scene
    - ERG Initial Isolation and Protective Action Distances
- Response Strategies: Containment & Confinement
- Offensive Strategies
- Spill Kit Types & Leak Response
- Hazardous Material & Waste Labeling

Handling Drums & Containers

- General
- Drum Incident
- Basic Storage & Safety Requirements
- Drum Spill & Leak Prevention
- Identifying Drum Contents
- Drum Location & Movement
- Inspection
- Opening
- Handling

Termination Procedures

- Terminating the Response
- Incident Debriefing
- Post-Incident Analysis
- After-Action Review

Video – 7 Steps of Spill Cleanup
Tabletop Exercise

Practical Session

- Tabletop Exercise

Training Center Provided Material

- Course materials

Learner Requirements

- None

Reference Material / Documents

OSHA 29 CFR 1910.120
EPA 40 CFR 311