

HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE (HAZWOPER)

To fulfill classroom requirements of OSHA 29 CFR 1910.120(e)&(q).

16-HOUR UPGRADE COURSE OUTLINE

OVERVIEW

This course provides an upgrade for students previously certified at the 24-hour level to meet 40-hour requirements mandated by OSHA 29 CFR 1910.120. Students will be expected to attend two full days of the class in order to meet the requirements.

This class is highly interactive and requires student/class participation. All training materials are provided at class and students are expected to participate in hands-on exercises, group tabletops and a dress out following by a final exam at days end.

Qualitative fit-testing is available for an additional fee. Students who receive fit-testing must produce a medical clearance. Please contact Customer Service for requirements at 800-711-2706 Ext 1.

DAY ONE

METERS AND MONITORING

1. Reasons for monitoring
2. Sampling Techniques
3. Meter Characteristics
4. Combustible Gas Indicators
5. Photo Ionization Detectors
6. Flame Ionization Detectors
7. Vapor Analyzers
8. Toxic Meters
9. Multi-gas Analyzers
10. Colorimetric Detectors
11. Sound Meters
12. Heat Stress Monitors
13. Instrument Safety
14. Meter Limitations

FIRE PROTECTION REQUIREMENTS

1. Classes of Fire
 - A. Class A
 - B. Class B
 - C. Class C
 - D. Class D
 - E. Class K
2. Fire Extinguishers
3. Open Yard Storage
4. Fire Brigades
5. Foams

CONFINED SPACES

1. Overview
2. Statistics
3. Training
4. Non-permit Required Confined Spaces
5. Permit Required Confined Spaces

6. Entrants
7. Attendants
8. Supervisors
9. Confined Space Rescue

HANDLING DRUMS AND CONTAINERS

1. Container Hazards
2. Inspecting Containers
3. Classification of Containers
4. Handling Containers
5. Staging
6. Bulking
7. Shipping

SAMPLING AND PACKAGING

1. Sampling Locations
2. Sample Planning
3. Sample Types
4. Sampling Strategies
 - A. Biased
 - B. Unbiased
5. Field Logs
6. Chain of Custody

DECONTAMINATION

1. Decontamination Planning
2. Decontamination Methods
 - A. Physical Removal
 - B. Chemical Deactivation
 1. Decontamination Solutions
3. Decontamination Effectiveness
4. Decontamination Procedures
5. Emergency Decontamination

SITE EMERGENCIES

1. Personal Emergencies
2. Work Site Emergencies

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3. Public Emergencies
4. Causes of Emergencies
5. Emergency Response Plans
 - A. Identification of Personnel
 1. Incident Commander
 2. Health and Safety Officer
 3. Response Teams
 - a. Entry
 - b. Rescue
6. Site Maps
7. Site Control
8. Accountability
9. Emergency Evacuation
10. Coordination with Government Agencies
 - A. National Contingency Plan
11. Emergency Site Safety

DAY TWO

OPENING- HAZWOPER REVIEW

1. Health and Safety Plan Review
 - A. Organizational Structure
 - B. Comprehensive Work Plan
 - C. Site Specific Health and Safety Plan
2. Retraining Requirements

HAZARDOUS WASTE

1. Listed Waste
 - A. CERCLA
 - B. TSCA
 - C. DOT

- D. EPCRA
2. Hazardous Waste Remediation
3. Hazardous Waste Effects
 - A. Toxic
 - B. Reactive
 - C. Ignitable
 - D. Corrosive
 - E. Radioactive
 - F. Persistent
 - G. Bio accumulative
4. Remediation Exercise

HAZARD COMMUNICATIONS

1. NFPA 704
2. DOT
3. HMIS III
4. MSDS
5. Tabletop Exercise

HANDLING HAZARDOUS MATERIALS

1. Site Control Plans
 - A. Site Maps
 - B. Two-person Rules
 - C. Communications
 - D. Standard Operating Procedures
 - E. Medical Plans
2. Tabletop Exercise

UPDATES/NEWS/CASE STUDIES

DRESS OUT EXERCISE

FINAL EXAMINATION