

COURSE OUTLINE

16-Hour HAZWOPER Upgrade Course Outline

Hazardous Waste Operations & Emergency Response (HAZWOPER) As per OSHA 29 CFR 120(e)

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



COURSE OUTLINE



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
3. Decontamination Solutions
4. Decontamination Effectiveness
5. Decontamination Procedures
6. Emergency Decontamination

SITE EMERGENCIES

1. Personal Emergencies
2. Work Site Emergencies
3. Public Emergencies
4. Causes of Emergencies
5. Emergency Response Plans
 - A. Identification of Personnel
6. Incident Commander

2. Health and Safety Officer
3. Response Teams
 - A. Entry
 - B. Rescue
4. Site Maps
5. Site Control
6. Accountability
7. Emergency Evacuation
8. Coordination with Government Agencies
 - A. National Contingency Plan
9. Emergency Site Safety

DAY TWO

INTRODUCTION-ADMINISTRATIVE

ANNUAL REGULATORY UPDATES

1. OSHA
2. EPA

SITE CHARACTERIZATION

Group activity for a scenario site, students will:

1. Identify Site Hazards
2. Identify Monitoring/Evaluating Requirements
3. Identify Controls for those Hazards

SITE PLANNING

Group activity for a scenario site, students will:

1. Determine the Organizational Structure
2. Identify Site and Emergency Response Plans
3. Discuss After Action Procedures & Critique

EXERCISE SCENARIO

This is a group activity for an emergency at the scenario site.

Practical

Students don and doff totally encapsulating suits/SCBA for a specified activity

FINAL EXAMINATION