



HAZWOPER Annual 8-Hour Refresher

Course Description



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HAZWOPER Annual 8-Hour Refresher (29 CFR 1910.120)

In compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120, this 8-hour annual training is to recertify individuals who have already taken the 40-hour or 24-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training. The 8-hour annual refresher-training course can be taken on-line while complying with the OSHA regulations. Once a student successfully completes the training, an e-certificate will be issued and the original certificates (8x10 and wallet card size) will be mailed.

This course features our exclusive HAZWOPER Hands-on Simulator.

While this training course is very comprehensive, we highly recommend that additional site-specific training be taken for certain hazardous materials that may be encountered at different sites.

Course Objectives:

- Describe training and other requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER) workers.
- Describe various types of hazardous substances.
- Define toxicity and describe factors that affect it.
- Describe hazardous substance labeling requirements and standards.
- Describe factors associated with respiratory protection.
- Describe various types of and selection criteria for personnel protective equipment.
- Describe decontamination guidelines and methods.
- Describe proper handling of drums and other hazardous waste containers.
- Recognize results of mixing incompatible chemicals and list examples of various incompatible chemicals.
- Take the HAZWOPER Certification exam.

Course Outline:

- A. Describe training and other requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER) workers.
 - Introduction
 - Overview of Pertinent Environmental Regulations
 - Access to Medical Records
 - HAZWOPER Standards
 - Confined Space Entry
 - Hazard Communication Standard
- B. Describe various types of hazardous substances.
 - Hazard Recognition
 - Vapor Pressure
 - Flashpoint
 - pH
 - Vapor Density
 - Oxidizers
 - Lower/Upper Explosive Limits
 - Carcinogens, Mutagens, and Teratogens



C. Define toxicity and describe factors that affect it.

- Toxicology
- Measurement of Toxicity
- Types of Exposure
- Routes of Exposure
- Absorption of Toxic Substances
- Synergism

D. Describe hazardous substance labeling requirements and standards.

- Placards and Labeling
- NFPA Hazardous Substance Identification
- Department of Transportation Identification System

E. Describe factors associated with respiratory protection.

- Respiratory Protection
- Using Air Purifying Respirators
- Measuring Chemical Concentration
- Determining Canister Service Life
- Determining the Protection Factor of a Respirator
- Respirator Fit Test
- Respirator Approval
- Recommendations for Using Respirator Canisters
- Supplied-Air Respirators

F. Describe various types of and selection criteria for personnel protective equipment.

- Personnel Protective Equipment
- Required Equipment List for Levels of Protection
- Types of personnel Protective Clothing
- Inspection and Maintenance of Protective Clothing

G. Describe decontamination guidelines and methods.

- Decontamination and Work Zones
- Decontamination Plans
- Decontamination Guidelines and Procedures
- Decontamination Methods
- When Decontamination Fails
- Laboratory Testing of Contaminated Articles
- Factors That Affect Permeation of Protective Clothing
- Substances and Tools for Effective Decontamination
- Decontamination Tools, Devices, and Equipment
- Work Zones

H. Describe proper handling of drums and other hazardous waste containers.

- Handling Drums and Other Containers

- Drum Handling Flow Chart
- Drum Inspection
- Survey of the Area
- Planning
- Purpose of Planning
- Equipment for Moving Drums
- Worker Safety
- Drums That May Contain Explosive or Shock-Sensitive Waste
- Bulging Drums
- Drums Containing Packaged Laboratory Waste (Lab Packs)
- Leaking, Open, and Deteriorated Drums
- Buried Drums
- Opening Drums

I. Recognize results of mixing incompatible chemicals and list examples of various incompatible chemicals.

Results of Mixing Incompatible Chemicals
Incompatible Hazardous Substances

J. Take the HAZWOPER Certification exam.

HAZWOPER 8-Hour Annual Refresher Certification Exam