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*The Official Site of Environmental Health & Safety Training®*

## 24 Hour HAZWOPER

29 CFR 1910.120 (e)

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Course Description

2018



This course features the exclusive OSHA accepted HAZWOPER Hands-on Simulator®. The simulator offers a stunning 3D environment for the proper donning and doffing of personal protective equipment (PPE).

### **Cost: \$295.00 per person**

Group discounts available (3 or more people). Please email or call us at 1.888.877.7130 for a quote. Price match guarantee! Must be OSHA compliant and same quality course.

### **Course Features**

- Includes 14 full length videos
- HAZWOPER Hands-on Simulator® - (OSHA Accepted)
- Over 75 interactive flash animations
- Approximately 77 modules
- Award winning content - CEU's
- Self grading quizzes and final exam
- OSHA Study Timer (tracks your study time login and logout at your convenience)
- Certificate of Completion (3 certificates) e-cert, 8x10 and wallet card (instant download of e-certificate upon course completion)
- HAZWOPER course access for 1 year from the time of registration
- Free registration into the National Repository® (download your certificates at anytime in the future)

### **Course Description**

In compliance with OSHA 29 CFR 1910.120 regulations, (24 hour HAZWOPER regulations) this training is required for individuals who plan to work in a area that is defined as a HAZWOPER Work Site. Upon successful completion of the course, students will receive a certificate of completion accepted by regulatory agencies. Students will be allowed to proceed at their own pace in this interactive program. Students must complete a minimum of 24 hours of study time in order to satisfy part of the 24 hour HAZWOPER certification requirement.

Along the way there are self grading quizzes, interactive exercises, full length videos and a self grading final exam. The quizzes can be taken as many times as needed, and the final exam can be taken a maximum of 3 times. Once a person satisfactorily completes the course, an e-certificate is immediately sent to them via email. The original certificates (8x10 and wallet card size) arrive in the U.S. mail.

The 24 Hour HAZWOPER Course is taken online. As with any training (classroom or online) the employer is required by regulations to train the employee(s) on performance based standards for any applicable equipment.



Aesthetically pleasing course layout that is user friendly. Professional voice-overs, animations and high definition photographs. Self-grading quizzes and final exam.

**This is a site-specific requirement and typically cannot be achieved in a regular public seminar or open enrollment class where training on a respirator(s) or PPE in general does not meet the site-specific regulatory requirement.**

General site workers (such as equipment operators, general laborers, and supervisory personnel) engaged in hazardous substance clean up and removal of other activities which expose or potentially expose workers to hazardous substances and health hazards shall receive a minimum of 24 hours of instruction off the site, and a minimum of 1 day actual field experience under the direct supervision of a trained, experienced supervisor.

### Course Overview

In compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120, the 24 hour training is to certify individuals who have a role in Hazardous Waste Operations and Emergency Response (HAZWOPER) operations. This training course offers 40 hours of on-line instruction. The course is a combination of: web-based instruction interactive exercises, audio narration of text, videos, animations, self-grading quizzes, and a final exam. Our OSHA Study Timer is also used to comply with the 24 Hour HAZWOPER training requirement. A student cannot take the final exam until this time requirement is met. 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. The 24 Hour HAZWOPER Course is taken online. As with any training (classroom or online) the employer is required by regulations to train the employee(s) on performance based standards for equipment.

This course features our exclusive **OSHA accepted** HAZWOPER Hands-on Simulator and is divided into 77 modules.

While this training course is very comprehensive, additional site-specific training must be taken for certain hazardous materials/environments that may be encountered at different sites. This is an employer obligation. As with any 24 Hour HAZWOPER training (classroom or online), a student must complete 1 day of site specific training at their first HAZWOPER site after successful completion of the course. This requirement is for new employees.



Group discounts available (3 or more people). Please email or call us at 1.888.877.7130 for a quote. Price Match Guarantee! We match any competitor's price for the same course even though the quality of the course may be vastly different. You may find less expensive online courses but they cannot fulfill the OSHA hands-on requirement without a simulator or other means. We are the only company today with an OSHA accepted online simulator. Course includes Free Study Guide!

## **Support**

Includes 24/7 **U.S. Based** support. An experienced and highly qualified HAZWOPER instructor is available to you throughout the training process. Our toll free hotline or email will allow access to some of the finest instructors in the U.S.

## **Duration**

**24 hours (OSHA 24 Hour HAZWOPER Training Requirement)** Note: OSHA requires the 24 hour course will take a minimum of 24 hours of actual study time. Anything less will not comply with the OSHA standard. Our course allows you to login and logout at any time increment in order to fit your schedule. When you logout, the course will be bookmarked so you can begin where you left off. The study timer will also accrue your time and will begin where you left off in the course.

## **Continuing Education Units (CEU's)**

This 24 hour HAZWOPER course has been awarded 4.00 Industrial Hygiene CM Points by the American Board of Industrial Hygiene (ABIH) - approval number 13334. This course is eligible for 2.00 Continuance of Certification (COC) points from the Board of Certified Safety Professionals (BCSP).

## **Prerequisites**

None

## **Table of Contents**

### **Module 1: Regulatory Overview**

EPA  
OSHA  
Levels of Training

### **Module 2: Hazard Communication (HAZCOM)**

*Regulatory Overview*  
*Requirements of the HAZCOM Standard*  
*Hazard Evaluation*

### **Module 3: HAZCOM Safety Data Sheets (SDS)**

*SDS Form*  
*SDS Form Explained*  
*Container Labeling Requirements*

"Overall I thought your 8 Hour HAZWOPER Refresher was very good..."

*J. Staples, OSHA*

### **Module 4: HAZCOM Hazardous Materials Identification System (HMIS)**

*HMIS Labels*  
*DOT Labels*  
*HMIS Labels Explained*

### **Module 5: Roles and Responsibilities Part 1**

*Organizational Structure*  
*Essential Personnel*  
*Health and Safety Plan (HASP)*

### **Module 6: Roles and Responsibilities Part 2**

*Optional Personnel*  
*Lines of Authority*

### **Module 7: HAZWOPER Site Control**

*Site Map*  
*Site Preparation*

### **Module 8: HAZWOPER Site Zones**

*Site Zones Explained*  
*Establishing the Hot Line*  
*The Buddy System*

### **Module 9: HAZWOPER Support Zones**

*Site Security*  
*Communication Systems*

### **Module 10: General Health and Safety Plan Guidelines**

*Health and Safety Guidelines*  
*Overview of Health and Safety Plan*

### **Module 11: Medical Surveillance Part 1**

*Information for Medical Program*  
*Develop a Site Specific Medical Program*

## **Module 12: Medical Surveillance Part 2**

*Medical Examination  
Periodic Medical Monitoring  
Examination After Injury  
Termination Exam*

## **Module 13: Hazard Recognition**

*Injury Prevention  
Boiling Point, Vapor Pressure, Vapor Density, pH,  
Flashpoint  
Oxidizers  
Lower/Upper Explosive Limits  
Flammability  
Fire Triangle  
SDS*

## **Module 14: Respiratory Protection Part 1**

*Respirator Protection Program  
Respirator Types  
Selection of Respiratory Equipment*

## **Module 15: Respiratory Protection Part 2**

*Air-purifying Respirators  
Combination Canisters and Cartridges  
Types of APR Face Pieces*

## **Module 16: Respiratory Protection Part 3**

*Supplied Air Respirators (SAR)  
Self Contained Breathing Apparatus  
(SCBA) Combination SCBA/SAR*

## **Module 17: Respiratory Protection Part 4**

*Chemical Concentration  
Protection Factors  
Calculating Protection Factors*

## **Module 18: Respiratory Protection Part 5**

*Respirator Fit Test (Quantitative and Qualitative)  
Respiratory Maintenance  
Types of Respirator Canisters  
How Respirators Work  
Positive and Negative Pressure Fit Test  
Respirator Limits  
Cleaning, Maintenance and Storage*

## **Module 19: Personal Protection Equipment (PPE)**

**Part 1 Clothing and Ensembles**  
*Developing a PPE Program  
Training  
Program Review and Evaluation*

## **Module 20: Personal Protection Equipment (PPE) Part 2**

*Level A  
Level B  
Level C  
Level D  
Selecting the level of protection*



## **Module 21: Personal Protection Equipment (PPE) Part 3**

*Protective Clothing  
Inspection and Maintenance of Protective Clothing  
Selection of Chemical Protective Clothing  
Permeation and Degradation  
Work Mission Duration*

## **Module 22: Personal Protection Equipment (PPE) Part 4**

*Considerations for working in PPE  
Air Supply Consumption  
Coolant Supply  
Accessories  
Special Considerations*

## **Module 23: Personal Protection Equipment (PPE) Part 5**

*Reasons to Upgrade/Downgrade PPE  
PPE Inspection Program  
Proper Storage  
PPE Before Use Inspection*

## **Module 24: Personal Protection Equipment (PPE) Part 6**

*In-use Monitoring  
Donning and Doffing  
Clothing Reuse  
Heat Stress and Monitoring  
Heat Rash  
Heat Cramps  
Heat Stroke*

## **Module 25: Personal Protection Equipment (PPE) Part 7**

*Hand Protection  
General Requirements of the OSHA Standard  
Eye and Face Protection  
Selection of Eye and Face Protection*

Head Protection  
Foot Protection

**Module 26: Decontamination Part 1**

Decon Plan and Procedures  
Standard Operating Procedures  
Maximizing Worker Protection from Hazardous Wastes  
Proper Dress Out Procedures  
Levels of Contamination

**Module 27: Decontamination Part 2**

Personal Decon Station  
Extent of Decon Required  
Types of Contamination  
Amount of Contamination  
Levels of Protection

**Module 28: Decontamination Part 3**

Decon of Personnel and Equipment  
Decon During Medical Emergencies  
Physical Injury  
Heat Stress

**Module 29: Decontamination Part 4**

Protection for Decon Workers  
Decon Procedures  
Chemical and Physical Removal of Contamination

**Module 30: Decontamination Part 5**

Persistent Contamination  
What if Decon procedure has not worked?  
Lab Testing Articles  
Fundamentals that Affect Permeation of Protective Clothing  
Substance and Tools for Effective Decontamination

**Module 31: Decontamination Part 6**

Disposal of Contaminated Equipment and Materials  
Decon Tools, Devices and Equipment  
Disposal of Contaminated Materials  
Health and Safety Hazards of Decontamination  
Decon Facility Design

**Module 32: Handling Drums Part 1**

Planning and Inspection  
Handling Drums  
Drum Handling Chart

**Module 33: Handling Drums Part 2**

Opening Drums and Incompatibilities  
Other Containers and Incompatible Chemicals  
Explosive and Shock Sensitive Wastes  
Bulging Drums  
Lab Packs  
Leaking, Open and Deteriorated Drums  
Buried Drums

**Module 34: Handling Drums Part 3**

Sampling and Staging  
Drum Sampling  
Bulking Shipping



**Module 35: Placards and Labeling**

NFPA Hazardous System Identification  
DOT Placards

**Module 36: Excavations Part 1**

OSHA Excavation Standard  
General OSHA Requirements  
Competent Person

**Module 37: Excavations Part 2**

OSHA Soil Classification  
OSHA Accepted Manual Field Test Methods  
Visual Test  
Manual Test

**Module 38: Excavations Part 3**

Requirements for Protective Systems  
Options for Protective Systems  
Sloping and Benching  
Distressed Soils  
Trenching and Shoring  
Trench Boxes

**Module 39: Confined Spaces**

Key Occupational Roles  
Safety Attendant  
Authorized Entrant  
Emergency Rescue Team Training

**Module 40: What is a Confined Space?**

Confined Space Fatalities  
Types of Confined Spaces  
Specific Confined Space Hazards

**Module 41: Confined Space Pre-Entry Procedure Part 1**

Safe Entry Procedures  
Confined Space Entry Plan

**Module 42: Confined Space Pre-Entry Procedure  
Part 2**

*Entry Permits  
Crew Briefing  
Rescue Operations  
Communications*

**Module 43: Confined Space Entry**

*Preparing the Confined Space for Entry  
Confined Space Atmosphere*

**Module 44: Confined Space Protective Devices,  
Controls, and Monitoring Part 1**

*Protective Devices  
Lockout/Tagout Devices  
Safety Barriers  
Equipment Used in Emergency Response  
First Aid Equipment*

**Module 45: Confined Space Protective Devices,  
Controls, and Monitoring Part 2**

*Fire Suppression Systems  
Top Entry  
Hot Work  
Electrical Equipment*

**Module 46: Confined Space Injury Prevention**

*Injury Prevention  
Causes of Fatalities*

**Module 47: Confined Space Hazards**

*Electrical/Mechanical  
Engulfment and Drowning  
Fall Hazards and Toxic Atmosphere*

**Module 48: Site Characterization Part 1**

*Offsite Characterization and Records Search  
Information Sources  
Interviews  
Perimeter Reconnaissance  
On-site Survey*

**Module 49: Site Characterization Part 2**

*Protection of Entry Team and Documentation  
Entry Team  
Monitoring and Hazard Assessment  
Document Control*

**Module 50: Toxicology Part 1**

*Chemical Classification  
Toxicology  
Routes of Exposure and Dose  
Interaction with Other Chemicals Dust, Fumes, Mists  
and Vapors*

**Module 51: Toxicology Part 2**

*Toxicokinetics  
Metabolism  
Classes of Chemical Toxins  
Dose to Organs*



**Module 52: Toxicology Part 3**

*Dose and Response  
Storage in the Body  
Chronic Response  
Toxic  
Chemical Interaction  
Dose/Response  
OSHA Exposure Limits*

**Module 53: Hazard Recognition Part 1**

*NFPA Requirements  
Job Hazard Analysis  
Defining Risk  
Chemical Hazard Identification Systems  
NFPA 704 System  
DOT Labels and Placards  
Ionizing Radiation*

**Module 54: Hazard Recognition Part 2**

*Chemical and Physical Hazards  
Fires and Explosions  
Combustibles  
Shock Sensitive  
Oxygen Deficiency*

**Module 55: Hazard Recognition Part 3**

*Site and Equipment Hazards  
Noise  
Heat Stress  
Heat Stroke  
Cold Stress*

**Module 56: Hazard Recognition Part 4**

*Infectious Diseases (Bloodborne Pathogens, HIV,  
HBV)  
Sanitation  
Illumination  
Lockout/Tagout*

**Module 57: Chemical Awareness Part 1**

*Hazardous Chemicals  
Corrosive Class Chemicals  
Labeling and MSDS*

**Module 58: Chemical Awareness Part 2**

*Acids and Bases  
Liquid Hazards  
Vapor Hazards  
Protective Measures*

**Module 59: Chemical Awareness Part 3**

*Hazardous Mixtures  
Polychlorinated biphenyls (PCBs)*

**Module 60: Chemical Awareness Part 4**

*Solvents  
Health Effects of Solvents  
Dos and Don'ts of Solvent Use and Storage  
Fire Triangle*

**Module 61: Chemical Awareness Part 5**

*Oxidizers and Gases  
Health Effects of Oxidizers and Gases  
Protective Measures*

**Module 62: Chemical Awareness Part 6**

*Water Reactive Substances and Explosives  
Characteristics of Water Reactive Metals  
Unstable Materials*

**Module 63: Chemical Awareness Part 7**

*Radioactive Hazards  
Types of Radiation  
Measurement of Radioactive Materials  
Radiation Dose Rates*

**Module 64: Chemical Awareness Part 8**

*Radiation Exposure and Protection  
Acute and Chronic Radiation Exposure  
Transferable Contamination  
Radiation Protection  
Sources of Exposure*

**Module 65: Air Monitoring Part 1**

*Requirements for Air Monitoring Devices  
Sampling Methods  
Air Monitoring Equipment Characteristics*

**Module 66: Air Monitoring Part 2**

*Types of Direct Reading Instruments  
Calibration  
Toxic Atmosphere Monitors*

**Module 67: Air Monitoring Part 3**

*Types of Direct Reading Instruments Cont'd  
Photoionization Detector (PID)  
Flame Ionization Detector (FID)  
Radiation Monitors  
OSHA Action Levels*

"We really enjoyed the content and the delivery of your training".

S. Maide, U.S. EPA

**Module 68: Air Monitoring Part 4**

*Active and Passive Sampling Equipment  
Personal Monitors  
Radiation Dosimeters  
Calibration  
Personal Sampling Plan*

**Module 69: Air Monitoring Part 5**

*OSHA Exposure Limits  
Measuring Particles, Gases and Vapors  
Permissible Exposure Limit (PEL)  
Time Weighted Averages (TWA)  
Calculating TWAs*

**Module 70: Air Monitoring Part 6**

*Site Monitoring  
Monitoring for Immediately Dangerous to Life and Health (IDLH)  
Perimeter Monitoring  
Variables of Hazardous Waste Site Exposures*

**Module 71: Hazardous Materials Sampling Part 1**

*Sampling Plan  
Hazardous Materials Sampling  
Sample Collection and Documentation*

**Module 72: Hazardous Materials Sampling Part 2**

*Soil, Surface Water and Groundwater Sampling  
Types of Sampling Equipment*

**Module 73: Hazardous Materials Sampling Part 3**

*Container Sampling  
Drum Opening  
Personal Protective Equipment  
Selection of Sampling Equipment*

**Module 74: Site Emergencies Part 1**

*Planning and Personnel  
Site Emergencies*



*How Teams assist in Emergencies*  
*Roles of Personnel During Emergencies*

**Module 75: Site Emergencies Part 2**

*Communications Safe Distances and Site Mapping*  
*Safe Refuge*  
*Public Evacuations*

**Module 76: Site Emergencies Part 3**

*Evacuations and Emergency Decontamination*  
*Personal Locator Systems*  
*Evacuation Routes and Procedures*  
*First Aid/Medical Treatment*

**Module 77: Emergency Response Procedures and Documentation**

*Rescue/Response Action*  
*Implementing Procedures*  
*Follow up and Documentation*

**HAZWOPER Hands-On Simulator**

**Final Exam**

