



NATIONAL ENVIRONMENTAL TRAINERS, INC.
3812 SHOAL CREEK COURT
MARTINEZ, GEORGIA 30907
1.888.877.7130

WWW.NATIONALENVIRONMENTALTRAINERS.COM

The Official Site of Environmental Health & Safety Training®

8 Hour HAZWOPER Refresher

Engineers & Scientists Version □ 29 CFR 1910.120 (e)

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: \$125.00 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 52 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 (e) regulations, (HAZWOPER regulations) this 8 hour annual refresher training is for individuals who have already taken the 40 hour or 24 hour HAZWOPER training. 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 8 hours of study time in order to satisfy the 8 hour HAZWOPER re-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.

Note: This course is a more advanced version of the regular 8 hour HAZWOPER refresher. It was designed for Engineers and Scientists.



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

General site workers (such as equipment operators, general laborers, and supervisory personnel) engaged in hazardous substance clean up and removal which will expose or potentially expose workers to hazardous substances and health hazards shall receive a minimum of 8 hours of re-certification instruction on an annual basis.

Course Overview

In compliance with the Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.120 (e), the 8 hour training is to re-certify individuals who have a role in Hazardous Waste Operations and Emergency Response (HAZWOPER) operations. This training course offers 8 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 8 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.

This course features our exclusive **OSHA accepted** HAZWOPER Hands-on Simulator and is divided into 52 short 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.

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

8 hours (OSHA 8 Hour HAZWOPER Training Requirement) Note: OSHA requires the 8 hour course will take a minimum of 8 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 8 hour HAZWOPER course has been awarded 1.34 Industrial Hygiene CM Points by the American Board of Industrial Hygiene (ABIH) - approval number 13334. This course is eligible for .66 Continuance of Certification (COC) points from the Board of Certified Safety Professionals (BCSP).

Prerequisites

24 or 40 Hour HAZWOPER Course – 29 CFR 1910.120 (e)

Table of Contents

Module 1: Regulatory Overview

EPA
OSHA
Levels of Training

Module 2: Roles and Responsibilities Part 1

Organizational Structure
Essential Personnel
Health and Safety Plan (HASP)

Module 3: Roles and Responsibilities Part 2

Optional Personnel
Lines of Authority

Module 4: Hazard Recognition (Overview)

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

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

J. Staples, OSHA

Module 5: 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 6: Hazard Recognition Part 2

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

Module 7: Hazard Recognition Part 3

Site and Equipment Hazards
Noise
Heat Stress
Heat Stroke
Cold Stress

Module 8: Hazard Recognition Part 4

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

Module 9: Toxicology Part 1

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

Module 10: Toxicology Part 2

Toxicokinetics

Metabolism

Classes of Chemical Toxins

Dose to Organs

Module 11: Toxicology Part 3

Dose and Response

Storage in the Body

Chronic Response

Toxic

Chemical Interaction

Dose/Response

OSHA Exposure Limits

Module 12: Placards and Labeling

NFPA Hazardous System Identification

DOT Placards

Module 13: Respiratory Protection Part 1

Respirator Protection Program

Respirator Types

Selection of Respiratory Equipment

Module 14: Respiratory Protection Part 2

Air-purifying Respirators

Combination Canisters and Cartridges

Types of APR Face Pieces

Module 15: Respiratory Protection Part 3

Supplied Air Respirators (SAR)

Self Contained Breathing Apparatus

(SCBA) Combination SCBA/SAR

Module 16: Respiratory Protection Part 4

Chemical Concentration

Protection Factors

Calculating Protection Factors

Module 17: 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 18: Personal Protection Equipment (PPE)

Part 1 Clothing and Ensembles

Developing a PPE Program

Training

Program Review and Evaluation

Module 19: Personal Protection Equipment (PPE)

Part 2

Level A

Level B

Level C

Level D

Selecting the level of protection



Module 20: 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 21: Personal Protection Equipment (PPE) Part 4

Considerations for working in PPE

Air Supply Consumption

Coolant Supply

Accessories

Special Considerations

Module 22: Personal Protection Equipment (PPE) Part 5

Reasons to Upgrade/Downgrade PPE

PPE Inspection Program

Proper Storage

PPE Before Use Inspection

Module 23: 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 24: 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 25: HAZWOPER Site Control

*Site Map
Site Preparation*

Module 26: HAZWOPER Site Zones

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

Module 27: HAZWOPER Support Zones

*Site Security
Communication Systems*

Module 28: Decontamination Part 1

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

Module 29: Decontamination Part 2

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

Module 30: Decontamination Part 3

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

Module 31: Decontamination Part 4

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

Module 32: 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 33: Handling Drums Part 1

*Planning and Inspection
Handling Drums
Drum Handling Chart*

Module 34: 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 35: Handling Drums Part 3

*Sampling and Staging
Drum Sampling
Bulking Shipping*

Module 36: Hazardous Materials Sampling Part 1

*Sampling Plan
Hazardous Materials Sampling
Sample Collection and Documentation*

Module 37: Hazardous Materials Sampling Part 2

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

Module 38: Confined Spaces

*Key Occupational Roles
Safety Attendant
Authorized Entrant
Emergency Rescue Team Training*

Module 39: What is a Confined Space?

*Confined Space Fatalities
Types of Confined Spaces
Specific Confined Space Hazards*

Module 40: Confined Space Injury Prevention

*Injury Prevention
Causes of Fatalities*

Module 41: Air Monitoring Part 1

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

Module 42: Air Monitoring Part 2

Types of Direct Reading Instruments

Calibration
Toxic Atmosphere Monitors

Module 43: Air Monitoring Part 3

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

Module 44: Air Monitoring Part 4

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

Module 45: Air Monitoring Part 5

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

Module 46: Medical Surveillance Part 1

Information for Medical Program
Develop a Site Specific Medical Program

Module 47: Medical Surveillance Part 2

Medical Examination
Periodic Medical Monitoring
Examination After Injury
Termination Exam

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: Site Emergencies Part 1

Planning and Personnel
Site Emergencies
How Teams assist in Emergencies
Roles of Personnel During Emergencies

Module 51: Site Emergencies Part 2

Communications Safe Distances and Site Mapping
Safe Refuge
Public Evacuations

Module 52: Site Emergencies Part 3

Evacuations and Emergency Decontamination
Personal Locator Systems



Evacuation Routes and Procedures
First Aid/Medical Treatment

HAZWOPER Hands-On Simulator

Final Exam