



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®

16 Hour Upgrade – 40 Hour HAZWOPER

29 CFR 1910.120 (e)

Course Description

2017



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: \$225.00 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)
- 51 interactive 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, this training is required for individuals who plan to work in an 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. This course is intended for HAZWOPER site personnel, e.g., supervisors, environmental professionals, workers, decon personnel etc.

A student must provide a 24 hour HAZWOPER certificate to take advantage of the 16 hour upgrade course.

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 employer is required to train the employee(s) on any applicable site-specific 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 40 hours of instruction off the site, and a minimum of 3 days 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 40-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 40 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 40 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 51 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 40 Hour HAZWOPER training (classroom or online), a student must complete 3 days 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

16 hours (OSHA 40 Hour HAZWOPER Training Requirement) Note: OSHA requires the 16 hour upgrade course will take a minimum of 16 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 16 hour HAZWOPER upgrade course has been awarded 2.67 Industrial Hygiene CM Points by the American Board of Industrial Hygiene (ABIH) - approval number 13334. This course is eligible for 1.32 Continuance of Certification (COC) points from the Board of Certified Safety Professionals (BCSP).

Prerequisites

24 Hour HAZWOPER

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: Toxicology Part 1

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

Module 37: Toxicology Part 2

Toxicokinetics
Metabolism
Classes of Chemical Toxins
Dose to Organs

Module 38: Toxicology Part 3

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

Module 39: 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 40: Hazard Recognition Part 2

Chemical and Physical Hazards
Fires and Explosions
Combustibles

*Shock Sensitive
Oxygen Deficiency*

Module 41: Hazard Recognition Part 3

Site and Equipment Hazards

Noise

Heat Stress

Heat Stroke

Cold Stress

Module 42: Hazard Recognition Part 4

Infectious Diseases (Bloodborne Pathogens, HIV, HBV)

Sanitation

Illumination

Lockout/Tagout

Module 43: Air Monitoring Part 1

Requirements for Air Monitoring Devices

Sampling Methods

Air Monitoring Equipment Characteristics

Module 44: Air Monitoring Part 2

Types of Direct Reading Instruments

Calibration

Toxic Atmosphere Monitors

Module 45: Air Monitoring Part 3

Types of Direct Reading Instruments Cont'd

Photoionization Detector (PID)

Flame Ionization Detector (FID)

Radiation Monitors

OSHA Action Levels

Module 46: Air Monitoring Part 4

Active and Passive Sampling Equipment

Personal Monitors

Radiation Dosimeters

Calibration

Personal Sampling Plan

Module 47: Air Monitoring Part 5

OSHA Exposure Limits

Measuring Particles, Gases and Vapors

Permissible Exposure Limit (PEL)

Time Weighted Averages (TWA)

Calculating TWAs

Module 48: Air Monitoring Part 6

Site Monitoring

Monitoring for Immediately Dangerous to Life and Health (IDLH)

Perimeter Monitoring

Variables of Hazardous Waste Site Exposures

Module 49: Hazardous Materials Sampling Part 1

Sampling Plan

Hazardous Materials Sampling

Sample Collection and Documentation



Module 50: Hazardous Materials Sampling Part 2

Soil, Surface Water and Groundwater Sampling

Types of Sampling Equipment

Module 51: Hazardous Materials Sampling Part 3

Container Sampling

Drum Opening

Personal Protective Equipment

Selection of Sampling Equipment

HAZWOPER Hands-On Simulator

Final Exam