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The Official Site of Environmental Health & Safety Training®

HAZMAT Technician Annual Refresher

29 CFR 1910.120 (q)

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: $125.00 per person

Group discounts available (3 or more people). Please email or call us at 1.888.877.7130 for a quote.

Course Features

- Includes 14 full length videos
- HAZWOPER Hands-on Simulator® - (OSHA Accepted)
- Over 78 interactive flash animations
- 62 modules with professional voiceovers
- 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)
- HAZMAT 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(q) regulations, (HAZWOPER emergency response regulations) this training is required for individuals who plan to work as emergency responders. 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. Note: OSHA requires a list of competencies that must be met rather than a minimum time requirement for emergency response refresher training.

Training includes offensive procedures for mitigation of hazardous materials spills, leaks, and exposures. Topics include chemistry, detection devices, advanced recognition and identification, pre-incident planning, incident management, scene evaluation and termination, terrorism, toxicology, medical surveillance, emergency care, PPE usage and limitations, and decontamination.

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

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.

Course Overview

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.

This course features our exclusive **OSHA accepted** HAZWOPER Hands-on Simulator® and is divided into 62 modules.

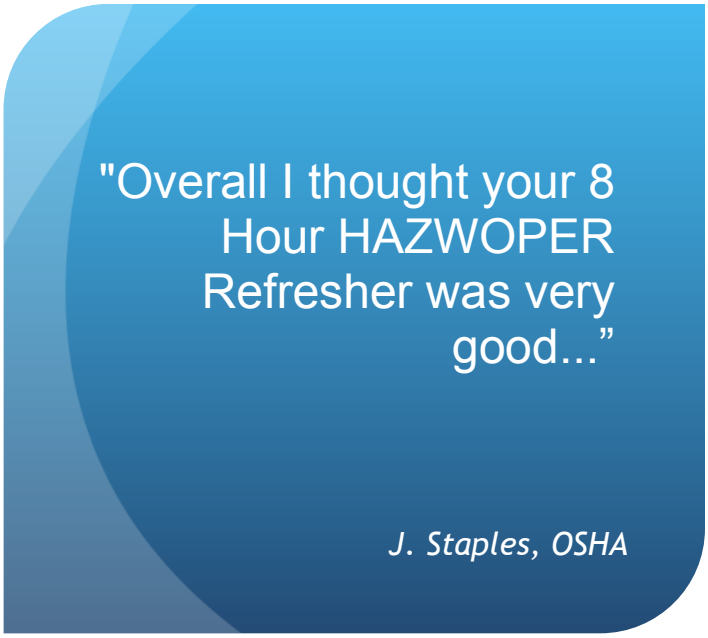
While this training course is very comprehensive, additional site-specific training must be taken for certain hazardous materials/environments that may be encountered at different sites. This is an employer obligation.

The HAZMAT Technician 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. This is a HAZWOPER 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. Generic hands-on training on PPE and equipment does not fully meet the OSHA regulations.

Plan States (approved by U.S. OSHA) must have standards at least as stringent as the Federal HAZWOPER training requirements. These Plan States may have additional training requirements.

Key Regulatory Topics

• Know how to implement the employer's emergency response plan
• Know the classification, identification and verification of known and unknown materials by using field survey instruments and equipment
• Be able to function within an assigned role in the Incident Command System
• Know how to select and use proper specialized chemical protective equipment provided to the hazardous materials technician
• Understand hazard and risk assessment techniques
• Be able to perform advanced control containment and/or confinement operations within the capabilities of the resources and personal protective equipment
• Understand and implement decontamination procedures
• Understand termination procedures
• Understand basic chemical and toxicological terminology and behavior



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

OSHA requires a list of competencies that must be met rather than a minimum time requirement for emergency response refresher training. 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 HAZMAT Technician refresher 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 Hour HAZMAT Technician

Table of Contents

Module 10: Medical Surveillance Program
Information for Medical Program
Develop a Site Specific Medical Program

Module 11: Hazard Recognition (Overview)
Injury Prevention
Boiling Point, Vapor Pressure, Vapor Density, pH, Flashpoint
Oxidizers
Lower/Upper Explosive Limits
Flammability
Fire Triangle
SDS

Module 12: Respiratory Protection Part 1
Respirator Protection Program
Respirator Types
Selection of Respiratory Equipment

Module 13: Respiratory Protection Part 2
Air-purifying Respirators
Combination Canisters and Cartridges
Types of APR Face Pieces

Module 14: Personal Protection Equipment (PPE) Part 1
Clothing and Ensembles
Developing a PPE Program
Training
Program Review and Evaluation

Module 15: Personal Protection Equipment (PPE) Part 2
Level A
Level B
Level C
Level D
Selecting the level of protection

Module 16: 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 17: Personal Protection Equipment (PPE) Part 4
Considerations for working in PPE
Air Supply Consumption
Coolant Supply
Accessories
Special Considerations

Module 18: Personal Protection Equipment (PPE) Part 5
Reasons to Upgrade/Downgrade PPE
PPE Inspection Program

Proper Storage
PPE Before Use Inspection

Module 19: Decontamination Part 1
Decon Plan and Procedures
Standard Operating Procedures
Maximizing Worker Protection from Hazardous Wastes
Proper Dress Out Procedures
Levels of Contamination

Module 20: Decontamination Part 2
Personal Decon Station
Extent of Decon Required
Types of Contamination
Amount of Contamination
Levels of Protection

Module 21: Decontamination Part 3
Decon of Personnel and Equipment
Decon During Medical Emergencies
Physical Injury
Heat Stress

Module 22: Decontamination Part 4
Protection for Decon Workers
Decon Procedures
Chemical and Physical Removal of Contamination

Module 23: 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 24: Placards and Labeling
NFPA Hazardous System Identification
DOT Placards

Module 25: Toxicology Part 1
Chemical Classification
Toxicology
Routes of Exposure and Dose
Interaction with Other Chemicals
Dust, Fumes, Mists and Vapors

Module 26: Toxicology Part 2
Toxicokinetics
Metabolism
Classes of Chemical Toxins
Dose to Organs

Module 27: Toxicology Part 3
Dose and Response
Storage in the Body
Chronic Response
Toxic
Chemical Interaction
Dose/Response
OSHA Exposure Limits

Module 28: 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 29: Hazard Recognition Part 2
Chemical and Physical Hazards
Fires and Explosions
Combustibles
Shock Sensitive
Oxygen Deficiency

Module 30: Hazard Recognition Part 3
Site and Equipment Hazards
Noise
Heat Stress
Heat Stroke
Cold Stress

Module 31: Hazard Recognition Part 4
Infectious Diseases (Bloodborne Pathogens, HIV, HBV)
Sanitation
Illumination
Lockout/Tagout

Module 32: Air Monitoring Part 1
Requirements for Air Monitoring Devices
Sampling Methods
Air Monitoring Equipment Characteristics

Module 33: Air Monitoring Part 2
Types of Direct Reading Instruments
Calibration
Toxic Atmosphere Monitors

Module 34: Air Monitoring Part 3
Types of Direct Reading Instruments Cont'd
Photoionization Detector (PID)
Flame Ionization Detector (FID)
Radiation Monitors
OSHA Action Levels

Module 35: Air Monitoring Part 4
Active and Passive Sampling Equipment
Personal Monitors
Radiation Dosimeters
Calibration
Personal Sampling Plan

Module 36: Air Monitoring Part 5
OSHA Exposure Limits
Measuring Particles, Gases and Vapors
Permissible Exposure Limit (PEL)
Time Weighted Averages (TWA)
Calculating TWAs

Module 37: Air Monitoring Part 6
Site Monitoring
Monitoring for Immediately Dangerous to Life and Health (IDLH)
Perimeter Monitoring
Variables of Hazardous Waste Site Exposures

Module 38: Site Emergencies Part 1
Planning and Personnel
Site Emergencies
How Teams assist in Emergencies
Roles of Personnel During Emergencies

Module 39: Site Emergencies Part 2
Communications
Safe Distances and Site Mapping
Safe Refuge
Public Evacuations

Module 40: Site Emergencies Part 3
Evacuations and Emergency Decontamination
Personal Locator Systems
Evacuation Routes and Procedures
First Aid/Medical Treatment

Module 41: Site Emergencies Part 4
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Size-Up
Rescue/Response Action
Follow Up
Documentation

Module 42: Facility Emergency Response Plan Part 1
Pre-emergency Planning
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Recognition and Prevention
Safe Distances and Refuge

Module 43: Facility Emergency Response Plan Part 2
Site Security and Control
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Emergency Decontamination
Emergency Medical Treatment and First Aid
Emergency Response Procedures and Critique

Module 44: Overview of DOT Emergency Response Guidebook (ERG)
Introduction
How to Read the ERG
List of DOT Tanks and Containers
Labeling

Module 45: The Ability to Recognize and Identify Hazardous Materials Part 1
Hazardous Materials Clues
Occupancy/Location
Fixed Sites
Transportation Sources
Highway, Rail and Air
Marine
Pipelines

Module 46: The Ability to Recognize and Identify Hazardous Materials Part 2
Tanks and Containers
Container Shape and Size
Types of DOT Highway Transportation Tanks, Tankers, Trailers and Containers
Types of DOT Rail Transportation Tank Cars
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Module 47: The Ability to Recognize and Identify Hazardous Materials Part 3
Stationary Bulk Tanks & Containers
Cryogenic Liquid Storage Tank
Dome Roof Tank
High Pressure Spherical Storage Tank
High Pressure Horizontal Tank
Cone Roof Tank
Covered Top Floating Roof Tank With Geodesic Dome
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Open Top Floating Roof Tank
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Module 48: The Ability to Recognize and Identify Hazardous Materials Part 4
Non-Bulk Containers
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Bags or Sacks
Boxes or Crates
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Module 49: The Ability to Recognize and Identify Hazardous Materials Part 5
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Type A
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Excepted
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Module 50: The Ability to Recognize and Identify Hazardous Materials Part 6
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NFPA 704 System
HMIS Placards and Labels

UN NA Hazard Class System
DOT 9 Classes of Hazardous Materials
Shipping Papers and SDSs

Module 51: HAZMAT Emergency Response Strategy and Tactics
Incident Action Plan (IAP)
Strategy and Tactics

Module 52: HAZMAT Emergency Response Strategic Goal 1 - Isolation
HAZMAT Zones
Staging Areas
Public Protection
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Module 53: HAZMAT Emergency Response Strategic Goal 2 - Notification of Others
Unity of Command
Emergency Response Plan
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Module 54: HAZMAT Emergency Response Strategic Goal 3 - Identification of Hazards
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Rescue Risks Associated with DOT Hazard Classes
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Dispersion Patterns
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Storage Areas

Module 55: HAZMAT Emergency Response Strategic Goal 4 - Protection of Responders and Public
HAZMAT Technician Personal Protective Equipment
Structural Firefighting Equipment
Proximity and Entry Suits
Chemical Protective Equipment
Limitation of Personal Protective Equipment (PPE)
Responder Rehabilitation
Emergency Decon
Mass Decontamination
Hose line Decontamination
Engine Corridor Decontamination
Ladder Corridor Decontamination
Decontamination Tents and Trailers
Hospital Decon
Contaminated Victim Decontamination
Pets and Animals Decontamination

Module 56: HAZMAT Emergency Response Strategic Goal 5 - Fire Control
Ignition Sources
Extinguishing Fires
Remove Fuel Supply
Remove Oxygen Source
Control Burn
Exposure Protection

Preventing Container Failure
Cool Containers
Stress Barriers
Remove Uninvolved Materials
Tactical Withdrawal
Explosion-Resistant Barriers

Module 57: HAZMAT Emergency Response Strategic Goal 6 - Spill Control (Confinement)
Air Releases
Foams
Ventilation
Releases Onto Land
Absorption
Blanketing
Diversion
Diking
Damming
Retention
Filter Fence
Floating Boom
Chemical Control Methods
Groundwater Contamination

Module 58: HAZMAT Emergency Response Strategic Goal 7 - Leak Control (Containment)
Tool Kits
Leaks from Drums
Leaks From Piping
Leaks from Tank Trucks and Assorted Containers
Product Transferring
Specialty Tools
Product Displacement
Crimping

Module 59: HAZMAT Emergency Response Strategic Goal 8 - Recovery and Termination Procedures

Incident Transition
Termination
Debriefing
Critiquing
After-Action Procedures
Reporting
Follow Up

Module 60: Using Foams
Vapor Suppression
Using Foams
Types of Foams
Foam Methods

Module 61: Review and Basic Chemistry Part 1
Physical Properties Terms

Module 62: Review and Basic Chemistry Part 2
Physical Properties Terms Continued

HAZWOPER Hands-On Simulator

Final Exam

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

S. Maide, U.S. EPA