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The Official Site of Environmental Health & Safety Training®

HAZMAT Specialist 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: \$295.00 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
- 82 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. Students must complete a minimum of 24 hours of study time in order to satisfy part of the 24 hour HAZMAT Specialist certification requirement.

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 24 hours of on-line instruction. The course is a combination of: web-based instruction interactive exercises, audio narration of text, videos, animations, selfgrading 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.

This course features our exclusive **OSHA accepted** HAZWOPER Hands-on Simulator® and is divided into 78 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 Specialist 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 24 hour 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

24 hours (OSHA Training Requirement) Note: OSHA requires the 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 HAZMAT Specialist course has been awarded 4.01 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 "Overall I thought your 8 Hour HAZWOPER Refresher was very good..."

J. Staples, OSHA

Module 2: Overview of Incident Command System

Introduction Incident Commander Responsibilities Hazardous Materials Contingency Plan Organization Incident Command System

Module 3: Incident Command Facilities

Incident Command Facilities and Locations Command Post Staging Areas Bases

Module 4: Incident Command System Concepts and Principles

Common Terminology Unity of Command Designated Incident Facilities

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: HAZMAT Site Control Site Map Site Preparation

Module 8: HAZMAT Site Zones

Site Zones Explained Establishing the Hot Line The Buddy System Module 9: HAZMAT 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 (Overview)

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: Placards and Labeling NFPA Hazardous System Identification DOT Placards

Module 33: Toxicology Part 1

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

Module 34: Toxicology Part 2

Toxicokinetics Metabolism Classes of Chemical Toxins Dose to Organs

Module 35: Toxicology Part 3

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

Module 36: 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 37: Hazard Recognition Part 2 Chemical and Physical Hazards

Fires and Explosions Combustibles Shock Sensitive Oxygen Deficiency

Module38: Hazard Recognition Part 3

Site and Equipment Hazards Noise Heat Stress Heat Stroke Cold Stress

Module 39: Hazard Recognition Part 4 Infectious Diseases (Bloodborne Pathogens, HIV, HBV) Sanitation Illumination Lockout/Tagout

Module 40: Air Monitoring Part 1 Requirements for Air Monitoring Devices Sampling Methods Air Monitoring Equipment Characteristics

Module 41: Air Monitoring Part 2

Types of Direct Reading Instruments Calibration Toxic Atmosphere Monitors

Module 42: Air Monitoring Part 3

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

Module 43: Air Monitoring Part 4

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

Module 44: Air Monitoring Part 5

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

Module 45: Air Monitoring Part 6

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

Module 46: Site Emergencies Part 1

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



Module 47: Site Emergencies Part 2

Communications Safe Distances and Site Mapping Safe Refuge Public Evacuations

Module 48: Site Emergencies Part 3

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

Module 49: Site Emergencies Part 4

Emergency Response Procedures Notification Size-Up Rescue/Response Action Follow Up Documentation

Module 50: Facility Emergency Response Plan Part 1 Pre-emergency Planning

Personnel Roles and Communication Recognition and Prevention Safe Distances and Refuge

Module 51: Facility Emergency Response Plan Part 2

Site Security and Control Evacuation Routes and Procedures Emergency Decontamination Emergency Medical Treatment and First Aid Emergency Response Procedures and Critique

Module 52: Training and Equipping Your HAZMAT Team Part 1 Training Requirements HAZMAT Levels

Responsibilities

Module 53: Training and Equipping Your HAZMAT

Team Part 2 *Medical Monitoring Cost of Training Protection Levels and Equipment*

Module 54: Facility Emergency Response Audit Part 1

Performing a Process Hazard Analysis Site Identification Hazard Qualification Consequence Analysis

Module 55: Facility Emergency Response Audit Part 2

Performing a Workplace Hazard Analysis Determining Location Examine Container Condition Determine the Physical State of Contents Determine Dispersion Pathways Exposure Indicators

Module 56: Federal, State and Local Emergency Response Requirements

Site Zones Explained Establishing the Hot Line The Buddy System

Module 57: Spill and Release Reporting Under Federal Regulations Part 1

Emergency Planning Requirements Emergency Planning and Notification Procedures for SARA Title III Compliance Regional Response Team National Response Team

Module 58: Spill and Release Reporting Under Federal Regulations Part 2

DOT Notification Requirements Leaking Containers

Module 59: Applicable Laws and Regulations *EPA*

Difference Between Laws and Regulations Major EPA and OSHA Laws Recordkeeping and Notifying OSHA OSHA Plan States

Module 60: Overview of DOT Emergency Response Guidebook (ERG)

Introduction How to Read the ERG List of DOT Tanks and Containers Labeling

Module 61: 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 62: 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 Intermodal Containers

Module 63: 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 Covered Top Floating Roof Tank Open Top Floating Roof Tank Petroleum Storage Tanks Horizontal Tank

Module 64: The Ability to Recognize and Identify Hazardous Materials Part 4 Non-Bulk Containers

Drums Bags or Sacks Boxes or Crates Cylinders Intermediate Bulk Containers

Module 65: The Ability to Recognize and Identify Hazardous Materials Part 5

Radioactive Containers Type A Type B Excepted Industrial Package I Industrial Package II

Module 66: The Ability to Recognize and Identify Hazardous Materials Part 6

Tanks and Containers Markings and Colors NFPA 704 System HMIS Placards and Labels UN NA Hazard Class System DOT 9 Classes of Hazardous Materials Shipping Papers and SDSs

Module 67: HAZMAT Emergency Response Strategy and Tactics Incident Action Plan (IAP) Strategy and Tactics

Module 68: HAZMAT Emergency Response

Strategic Goal 1 - Isolation HAZMAT Zones Staging Areas Public Protection Shelter in Place Evacuation

Module 69: HAZMAT Emergency Response

Strategic Goal 2 - Notification of Others Unity of Command Emergency Response Plan Incident Levels

Module 70: HAZMAT Emergency Response Strategic Goal 3 - Identification of Hazards

Surveying the Scene Rescue Risks Associated with DOT Hazard Classes Pipelines Containers Dispersion Patterns Environment Confined Spaces Storage Areas

Module 71: 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

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

S. Maide, U.S. EPA

Ladder Corridor Decontamination Decontamination Tents and Trailers Hospital Decon Contaminated Victim Decontamination Pets and Animals Decontamination

Module 72: 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 73: 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 74: 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 75: HAZMAT Emergency Response Strategic Goal 8 - Recovery and Termination Procedures

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

Module 76: Specialized Mitigation Techniques Part

Basic Safety Procedures Overpacking Patching Bandages Sealants Engineering Methods

Module 77: Specialized Mitigation Techniques – Non Bulk Containers Part 2

Control Techniques for Non-Bulk Containers Mitigation Methods Plugging/Patching Bandages Sealants Compressed Gas Cylinders Commercial Kits

Module 78: Specialized Mitigation Techniques – Highway Cargo Tanks Part 3

Control Techniques for Cargo Tanks Types of Leaks Dome Cover Leaks Tears/Irregular Holes/Punctures Vents/Relief Valves/Rupture Disk Leaks Inspecting Damaged Cargo Tanks

Module 79: Specialized Mitigation Techniques – Highway Cargo Tanks Part 4

Inspecting and Repairing Damaged Cargo Tank Fittings Handling Damaged Cargo Tanks Field Product Removal Methods Transfers Venting, Flaring, and Venting and Burning Non-Pressure Cargo Tank Special Considerations -Fire in MC 306/DOT 406 Cargo Tanks Vacuum trucks

Module 80: Specialized Mitigation Techniques – Rail Tanker Cars Part 5

Control Techniques for Tank Cars Inspecting and Repairing Damaged Fittings Decision-Making and Mitigation Offensive Operations Decision-Making Safety

Module 81: Review and Basic Chemistry Part 1 Physical Properties Terms

Module 82: Review and Basic Chemistry Part 2 Physical Properties Terms Continued

HAZWOPER Hands-On Simulator

Final Exam



HAZMAT Specialist

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