



Colston Safety and Training, Inc.
Haz-Woper 40-Hour Training

Prerequisites: This course has no prerequisite.

Course Length: 40 Hours – Course length will vary dependent on student count Total course length does not include breaks.

Class Size: The maximum number of students per instructor is twenty (20).

COMPLIANCE REQUIREMENTS:

- OSHA 29 CFR 1910.120 requires training depending on the workers job classification hazardous substances presence at job site.
- There are several HAZWOPER training requirements for employees who work around hazardous substances. We offer all HAZWOPER required training courses which fully comply with requirements set forth in OSHA 29 CFR 1910.120. They are as follows:
 - Emergency Response Workers:
 - Level 1 Awareness – Emergency Notification and HAZCOM 8 Hrs. (Day 1)
 - Level 2 Operations – Defensive Measures 16 Hrs. (Day 1-Day 2)
 - Level 3 Technician – Offensive Measures 24 Hrs. (Day 1-Day 3)
 - Level 4 Technician – Specific Hazards 40 Hrs. (Day 1-Day 5)
 - Annual Refresher 8 Hrs. (Day 1)

Course Objective:

- Regulation Review
 - NFPA 472.6.2.2
 - OSHA 29 CFR 1910.120, 1910.1200, 1910.1000
- Basic Principals
 - Chemical properties
 - Hazards
 - Risks
- General Terms and Definitions
 - Element
 - Compound
 - Mixture
 - Solution
 - Slurry
 - Cryogenic liquid

- Ionic Bonding
- Covalent Bonding
- Organic Materials
- Inorganic Materials
- Hydrocarbons
- Saturated Hydrocarbons
- Unsaturated Hydrocarbons
- Aromatic Hydrocarbons
- Halogenated Hydrocarbons
- Physical Properties
 - Normal Physical State
 - Temperature of product
 - Specific Gravity
 - Vapor Density
 - Boiling Point
 - Melting Point
 - Sublimation
 - Critical Temperature
 - Critical Pressure
 - Volatility
 - Evaporation Rate
 - Expansion Ratio
 - Vapor Pressure
 - Solubility
 - Miscibility
 - Degree of solubility
 - Viscosity
- Chemical Properties
- Flammability Hazards
 - Flash Point
 - Fire Point
 - Ignition Temperature
 - Auto ignition Temperature
 - Flammable range
 - Explosive Range

- Toxic products of Combustion
- Reactivity Hazards
- Corrosivity Hazards
- Radioactivity Hazards
- Sources of Hazard Data
 - Reference Books
 - Guide Books
 - Technical Information Centers
 - Web Sites
 - Computer Databases
 - Technical Information Specialists
 - Material Safety Data Sheets
 - Labels
 - Laws (Regulations)
- Monitoring Instruments
 - Direct Reading
 - Corrosive Reading
 - Radiation Survey
 - Oxygen
 - Combustible Gas (LEL)
 - Colorimetric Indicators
 - Toxic Gas sensors
 - Ionization Detectors
 - Photo-ionization Detectors (PID)
 - Flame Ionization Detectors (FID)
 - Multi Gas Monitors
 - Test Strips
 - Test Paper
- Sampling Methods, Procedures & Strategies
- Managing Information
- General Hazardous Material Behavior Model
- Container Stress Events
- Container Breach Events
- Release Event
- Engulfing Event

- Incident action Plan
- Risk Evaluation

Course Outline Topics:

Day 1 - Hazwoper Laws

The Levels of Training

29 CFR 1910.1200 Hazard Communication Standards

Hazardous Substance

Material Safety Data Sheets

Control Methods

Personal Protective Equipment

Hearing Conservation

Emergency Procedure

Day 2 - Toxicology

Hazard Recognition

Health Effects

Safety and Health Plan

Communications

Sampling Techniques and Air Monitoring

Safe Material Handling Techniques

Day 3 -

Confined Space Entry

Introduction

Permit

Pre-Entry

Pre-Entry Checklist

Lockout-Tagout

Confined space Entry

Personal Protective Equipment

Fall Protection

Respirator Maintenance program and Inspection Procedures

Cleaning, Repair and Storage of Respirators

Emergency Rescue

Decontamination

Hydrogen Sulfide (H₂S)

Introduction

Characteristics

Effects on Individuals

- Concentration Levels
- Detection
- Precautions
- Emergency Rescue and First Aid
- Respiratory Protection Policy
- Respiratory Hazards
- Respiratory Emergencies
- Personal Protective Equipment

Day 4 - HM 126/181 Handling and Shipping of Hazardous Materials

- General
- Hazardous Materials
- Packaging and Marking
- Labels
- Documentation
- Placards
- Loading and Storage
- Regulations
- Levels of Personal Protective Equipment

Day 5 - Super Fund Community Relations

- Field Exercises
- Practical Use of Personal Protective Equipment
- On-Site Demonstration
- Review for Final Examination
- Final Test and Critique

This matrix is to be considered as an example. The order of topics may change to accommodate class experience or instructor availability. Additional topics may be added or customized to meet client or facility hazards.

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