M&A Safety Services, LLC

Administrative office:
1210 Import Dr.
New Iberia, LA 70560

Main: 337-451-4685
Fax: 337-359-4478

www.masafetyservices.com

Confined Space Entry/Attendant

Course Outline

Prerequisites: This course shall have no formal pre-requisite.

Course Length: 4-5 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

Class Size: The maximum number of delegates that may be trained and tested per instructor shall be thirty-five (35) in the classroom session and twenty (20) in the practical session. A second instructor shall be added for the practical session once the participation exceeds twenty (20) and exercises will be divided into groups.

Course Objective

- Provide delegates assigned to confined space duties the necessary skills to safely perform their jobs.
- Identify the characteristics of a confined space.
- Describe the basic hazard categories associated with confined space.
- Determine the elements of a confined space program.
- Identify and describe the primary roles of authorized entrants, attendants, supervisor, and designated rescue team/services.
- Delegates should be able to demonstrate the necessary skills during practical examination and demonstrate knowledge during written examination.

Course Design

- Power Point© / Lecture / Audio Video / Visual Aids
- Demonstrations
- Practical Exercises

Successful Course Completion

- Requires a minimum score of 75% or better.
- Delegates will have no more than thirty (30) minutes to complete the exam.
- Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
- Successful completion of practical session is mandatory.

Course Content Summary

- Classroom
- Practical Exercises

Breaks: 10 minutes (approximately every hour)
Lunch: 1 Hour (if applicable)

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About Confined Spaces

- Why Confined Space Training?
- OSHA/NIOSH Statistics
- What is a Confined Space?
- What is a Permit-Required Confined Space?
- Common Examples of a Confined Space

Responsibilities of Personnel

- Competent Persons
  - Entrant
  - Attendant
  - Rescue
  - Entry Supervisor
- Roles and Responsibilities of Personnel

Fall Protection Review

- Anchorage Points
- Fall Arrest Lanyards
- Body Harness
- Harness and Lanyard Inspection
- Harness Donning Demonstration

Confined Space Entry

- Entry Communication and Coordination
- Entry Requirements
- Entry Permit Requirements
  - Employer Responsibilities
  - Permit Requirements
- Hazard Communication
- Hazard Evaluation
- Pre-Job Safety Planning
- Permits
  - OSHA Requirements
  - Implementation
  - Duration
  - Revoking Permits
  - Changing Work Conditions
- What Constitutes Entry?

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Course Outline

Confined Space Hazards

- Atmospheric
- Physical

Atmospheric Hazards

- Breathing Air Composition
- Oxygen Levels
    - Asphyxiation
- Effects of Oxygen Deficiency
- What Causes Oxygen Deficient Atmosphere?
- What Causes Oxygen Enriched Atmosphere?
- Other Hazards
- Toxic Contaminants
- How much is Hazardous?
    - Permissible Exposure Limit (PEL)
    - Threshold Limit Value (TLV)
        - Time Weighted Average (TWA)
        - Short Term Exposure Limit (STEL)
        - Exposure Ceiling
- Common Hazardous Gases Found in Confined Spaces
- Acute/Chronic Symptoms
- Flammability
    - Explosions
    - Explosion Mixture
    - Flash Point
    - Upper Explosive Limit (UEL)
    - Lower Explosive Limit (LEL)
- LEL Requirements (OSHA)
- UEL/LEL Examples
- Causes of Flammable Atmospheres
- Fire Ignition
- Safety Data Sheets (SDS)
    - Components of SDS
    - Sections of SDS

Atmospheric Hazard Protection

- Control Measures
    - Engineering Controls
    - Administrative Controls
    - Personal Protective Equipment (PPE)

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Course Outline

- Types of Respirators
  - Air Purifying Respirator (APR)
  - Supplied Air Respirator (SAR)
    - Atmospheric Supplied
    - Self-Contained Breathing Apparatus (SCBA)
    - Cascade Systems
    - Escape Packs
    - SCBA Inspection
- Respirator Fit Testing
  - Quantitative
  - Qualitative
- Respirator Usage
- Respirator Inspection
- Respirator Maintenance
- Respirator Donning/Doffing
- Respirator Storage
- Air Monitors
  - Requirements and Use
  - Personal Detectors
  - User Responsibility
- Air Sampling in a Confined Space
  - Stratification
  - Gas detector Demonstration

Physical Hazards

- Common Physical Hazards
  - Engulfment
  - Entrapment/Entanglement
  - Potential Energy
  - Electrical
  - Pressure
  - Momentum/Gravity
  - Residual/Stored
- Energy Isolation
- Clearing the Confined Space
- Protective Measures for Each Hazard

Worker Introduced Hazards

- Common Examples
- External Hazards

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Course Outline

Confined Space Safety

- Ventilation
- Types of Ventilation
  - Natural
  - Mechanical Supply
  - Mechanical Exhausting
- Ventilation Factors
  - Ventilation System Demo
- Supply Ventilation Directions
- Exhaust Ventilation Directions
- Proper Ventilation Techniques

Practical Session

Practical training shall utilize a confined space simulator and other safety equipment.

Practical shall verify the following:

- Properly select and wear appropriate PPE during practical training
- Conduct proper pre-use inspection of PPE and equipment
- Effectively communicate amongst Entrant, Attendant, & Rescue Team
- Effectively monitor and control air quality
- Ability to safely perform work in a confined space environment
- Properly secure life lines
- Use Tri-Pod/Winch and other rescue equipment
- Ability to properly store equipment and PPE

Training Center Provided Material

- PPE
- Confined Space Equipment

Delegate Requirements

- Must possess good physical health as the practical training is physical demanding.

Reference Material / Documents

OSHA 29 CFR 1910.146
OSHA 29 CFR 1910.134