

H S E

HEALTH

SAFETY

ENVIRONMENT



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Safety & Standards for Confined Space (CS)

Duration: 5 Days



Introduction:

This course will show you how to work in a confined space environment to maximize safety for you and those around you, as well as certify you under the OSHA Confined Space standard 29 CFR 1910.146. From OSHA: Many workplaces contain spaces that are considered “confined” because their configurations hinder the activities of employees who must enter, work in, and exit

them. A confined space has limited or restricted means for entry or exit, and it is not designed for continuous employee occupancy. Confined spaces include, but are not limited to underground vaults, tanks, storage bins, manholes, pits, silos, process vessels, and pipelines. OSHA uses the term permit-required confined space (permit space) to describe a confined space that has one or more of the following characteristics: contains or has the potential to contain a hazardous atmosphere; contains a material that has the potential to engulf an entrant; has walls that converge inward or floors that slope downward and taper into a smaller area which could trap or asphyxiate an entrant; or contains any other recognized safety or health hazard, such as unguarded machinery, exposed live wires, or heat stress. The overall objective of this course is to protect those entering or working around a confined space. In this course you will learn the physical, chemical, and biological principles related to safe working with confined spaces. This course is suitable for people requiring access to

a confined space. The course will ensure the participant understands and can interpret the standards that surround confined spaces and confined space entry. **The course will cover:**

- Key elements of the OSHA Permit-Required Confined Spaces Regulation (29 CFR 1910.146)
- Confined spaces concepts and terminology
- The difference between confined spaces and permit-required confined spaces
- How to identify and evaluate hazards: atmospheric, mechanical, chemical
- Procedures for controlling hazards
- Proper protective equipment for confined spaces
- Duties of the entry supervisor, entrant, and attendant
- Procedures for self-rescue, non-entry rescue, entry rescue by company employees, and entry rescue by emergency responders
- Completing the entry process
- Identifying confined space
- Permit required confined space program
- Personnel responsibilities
- Rescue and emergency services

Who Should Attend?

Team Leaders, Managers, Line Managers, Supervisors, Team Leaders, Project Managers, Control Center Operators and Supervisors, Emergency Dispatchers, Security Personnel and CCTV Operators, HSE Officers, HSE Personnel, HSE Professionals, Emergency Response Team Members, HSE Managers and Auditors, Health & Safety and Environmental Professionals, Coordinators, Specialists and other full-time safety practitioners, Fire Officers, Loss Control Managers, Security Directors and Managers, Security

Supervisors, Facilities Directors and Managers, HR and Administrative Managers with responsibility for security, Project Managers, Safety Inspectors, Plant Managers and Supervisors, Incident Control Point (Forward Control) Team Members, Supervisors, Advisors, Auditors, Laboratory Personnel, Emergency Personnel, Maintenance Personnel.

Course Objectives:

By the end of this course delegates will be able to:

- Establish confined space's role in today's industry
- Discuss OSHA'S requirements for confined spaces
- Know principle hazards involved with CS entry
- Acquire basic skills in hazard recognition & control
- Identify confined space assessment techniques
- Discuss confined space fall protection systems
- Discuss hazards associated with fall protection
- Learn rescue and retrieval requirements
- Be able to identify what types of areas are confined spaces, including permit-required confined spaces and non-permit spaces, and to define each term
- Identify the hazards commonly found in confined spaces, including atmospheric hazards and physical hazards
- Identify the roles and responsibilities of the entrant and attendant as defined by OSHA for various personnel during confined space operations
- Understand the use and need for a confined space permit
- Understand basic emergency activities during a confined space emergency, including the hierarchy of rescue
- Understand the scope & application of OSHA's various confined space entry standards
- Identify "Confined Spaces", then determine if they are "Permit Required"

- Understand OSHA requirements for developing and maintaining a "permit-required confined space entry program"
- Know responsibilities of entrants, attendants, entry supervisors, contractors
- Identify when you may utilize OSHA's "Alternate Entry" and "Reclassification" procedures
- Understand the requirements for "Rescue & Emergency Services"
- Have a basic knowledge of the general use and limitations of related equipment

Course Outline:

- Anatomy of confined spaces
- Definition of a confined space
- Hazards of a confined space regulatory overview
- Defining the problem
- OSHA standard (29 CFR 1910.146)
- Introduction to toxicology hazards in a confined space
- Evaluation of hazards
- Decision making and hazard review
- Inspection and corrective action
- Personal protective equipment
- Respiratory protection
- Clothing needs
- Decontamination methods
- Review of confined space programs
- Instrumentation
- Instrument calibration and maintenance
- Ventilation methods
- Qualifying personnel permit management training programs
- Safety equipment demonstration
- Safety equipment use
- Tank and manhole entry

- Rescue operations
- Accident scenarios
- Introduction to rope systems
- Rescue precautions
- Victim extrication & rescue