



Danger
Confined
space



Do not enter
without a
permit to work



Confined Space Safety

HSE206

Course Overview



Course Description: Confined Space safety course has been developed to provide participants with a theory and practical knowledge of equipment requirements and safe work methods to be used when working in a confined space. The course is suitable for persons who are required to work in areas where there may be a risk of unhealthy atmosphere and those who may be required to act as rescue personnel and manage or supervise persons' evacuation from confined space.

Learning Objectives: By the end of this training session participants will be able to:

- Identify what a confined space is;
- Outline legal and regulatory requirements
- Identify hazards associated with confined space entry;
- Outline key control measures to work in confined space;
- List key documentation requirement for confined space entry;
- Responsibilities of Entrant, Attendant and Supervisor
- Outline emergency requirements and Self-safety in rescue operation

Who should attend?

Line Managers, Technical team and other working members whoever is associated with Confined Space Work.

Course Specifics:

Duration

4 hours

Assessment Method

- *Written Evaluation* – Required for all students
- *Skills Evaluation* – Students must perform required skills competently without assistance.

Delivery Options

- Instructor-led.
- The course materials are supported by video & group exercises.

References

OSHA Standard 29 CFR 1910.146

Course Outline



- **What is Confined Space?** – OSHA definition of Confined Space. Reasons for Entering Confined Spaces.
- **Examples of Confined Spaces** – Tanks; Manholes; Sewers; Silos; Hoppers; Boiler; Furnaces, Trenches, Tunnels, Duts, pipes; Pits; Bins etc.
- **Permit Required Confined Spaces (PRCS)** - Hazardous atmosphere; engulfing hazards, trapped hazard; other safety or health hazard.
- **Non-permit required confined spaces** - The space poses no actual physical, biological or potential hazardous atmospheres,
- **Atmospheric Hazards** - Oxygen: 19.5 percent to 23.5 percent ; Flammability: below 10 percent of the lower flammable limit (LFL) for gases, vapors, mists or combustible dust ;Toxic gases: below the permissible exposure limit (PEL)/threshold limit value (TLV) or time-weighted average (TWA) of a substance
- **Non-Atmospheric Hazards** - Heat; Impact; Falls; Noise; Vibration; Chemicals and Biological hazards
- **Confined Space Program Components** - Identify and evaluate hazards prior to entry; Develop and implement means, procedures, and practices for safe entry ; Required to have a Confined Space program; Need to identify Confined Spaces and PRCS at each facility; Need to inform Team Members (and contractors) of Confined Spaces and PRCS; Required to provide training; Monitor compliance with the Confined Space Program
- **Controlling Hazards** – Hierarchy of controls – Elimination; Substitution; Engineering controls (Gas testing, Ventilation, Lockout Tagout, Barricading etc.) ; Administrative controls (Permit, Risk assessment, SOPs, Signages etc.) and PPE/RPE
- **Duties and Responsibilities of the Confined Space Entry Team** – Entrant, Attendant, Supervisor, Authorized gas tester; Rescue team members; Other employees
- **Confined Space rescue**- Self rescue; Non entry rescue; Entry Rescue
- **Confined Space training Requirements** - Hazard identification and dynamic risk assessment ; Pre use PPE and Equipment checks; Atmospheric testing through correct operation of monitoring equipment; Appropriate actions allowing safe egress from a confined space in an Emergency situation (scenario-based activity(s))