



Confined Space

Know Your Limits: Safe Entry, Safe Exit
out of Confined Spaces!

This session will help identify and
manage daily risks



Welcome to Confined Space Training



Understanding

This training module is designed for you to gain a clear definition of Confined Spaces and identify their common characteristics



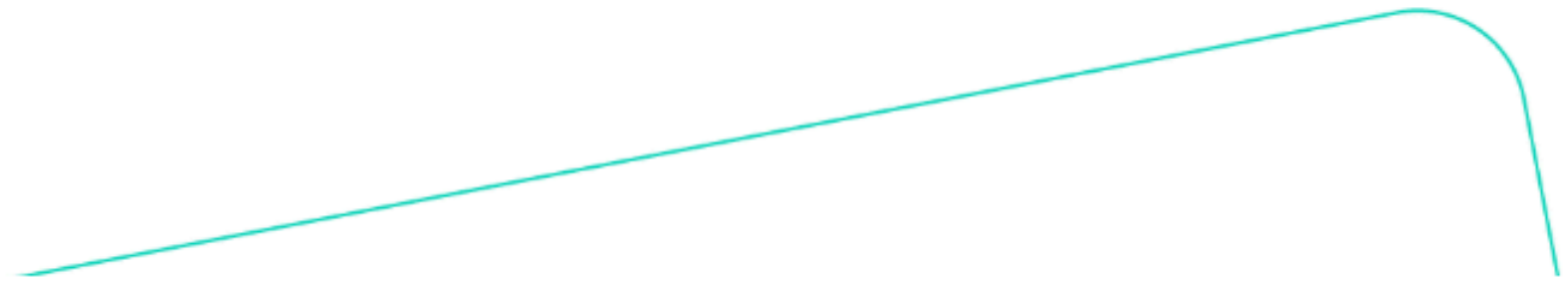
Confined Space scenario

Confined Space refers to any area where workers are at risk of encountering hazardous conditions due to restricted entry and exit, potentially harmful atmospheric conditions, or other environmental dangers that can arise from the space's design and use



How to avoid Confined Space hazards

By the end of this session, you will gain insights into when and how to understand associated Confined Space hazards effectively and avoid them



Agenda



What Does "Confined Space" mean?



Hazard Identification and Risk Assessment



Safe Entry Procedures



Emergency Response and Rescue Operations



Roles and Responsibilities



Safety Culture = Prevention

What Does Confined Space Mean?

Definition of Confined S

A Confined Space is an area large enough for worker entry, has limited entry or exit points, and is not intended for continuous occupancy

Example of Confined Space

- Storage Tanks
- Silos
- Manholes
- Pipelines
- Vessels
- Crawl Spaces
- Boilers
- Utility Vaults
- Trenches
- Ducts

Possible consequences

Working in Confined Spaces can lead to oxygen deficiency, toxic gas exposure, engulfment hazards, fire risks, physical hazards, or temperature extremes.



Hazard Identification and Risk Assessment

Click on the plus buttons to learn more.

Atmospheric Hazards

Assess the risk of oxygen deficiency, toxic gases like hydrogen sulfide or carbon monoxide, and flammable vapors

Engulfment Hazards

Identify the potential for being submerged or trapped by materials such as grain, sand, or liquids

Physical Hazards

Recognize risks such as sharp edges, inadequate lighting, or structural instability that could lead to injury

Evaluate Hazard Severity

Determine the potential impact of each hazard on worker health and safety, considering both immediate and long-term effects

Determine Likelihood of Occurrence

Estimate the probability of each identified hazard occurring during confined space activities, based on past incidents and current conditions

Identify Control Measures

Develop strategies such as ventilation, use of personal protective equipment (PPE), and safe entry protocols to reduce or eliminate risks

Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Identify Confined Spaces

Determine which areas qualify as Confined Spaces based on their structure and potential hazards.

Assess Risks

Evaluate the specific dangers within the space, such as toxic gases, low oxygen levels, or mechanical hazards.



Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Issue Entry Permit

Establish a permit-to-work system that details entry conditions, safety protocols, and the specific duration of the permit.

Ensure Compliance

Verify that all permit conditions are met, including environmental checks and readiness of safety equipment.



Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Conduct Air Quality Tests

Use appropriate detection devices to check for oxygen levels and the presence of flammable or toxic gases.

Maintain Ventilation

Ensure continuous ventilation to keep the atmosphere safe for the duration of the work.



Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Equip Properly

Provide workers with the necessary PPE, such as respirators, helmets, and protective clothing, tailored to identified risks.

Check Fit and Function

Confirm that all PPE is in good condition and properly fitted to each worker.



Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Establish Communication

Implement reliable communication methods between the entrant and an attendant stationed outside the confined space.

Continuous Surveillance

Designate an attendant to monitor the entrant's safety and maintain contact at all times.



Safe Entry procedure

Click on the tabs to know more.

Hazard Identification and Risk Assessment

Permit System Implementation

Atmospheric Testing and Ventilation

Personal Protective Equipment (PPE) Usage

Communication and Monitoring

Emergency Preparedness and Training

Prepare an Emergency Plan

Develop a detailed plan for emergency situations, including evacuation procedures and first aid measures.

Conduct Training and Drills

Ensure all personnel are trained on entry procedures and emergency response, including regular drills to reinforce these skills.



Emergency Response and Rescue Operations



Develop an Emergency Plan

Identify Risks

Analyze potential emergencies specific to the Confined Space environment.

Detail Procedures

Create clear evacuation, communication, and medical response protocols tailored to these risks.

Equip and Train Personnel

Rescue Equipment

Ensure availability and regular maintenance of essential rescue gear like harnesses and breathing apparatus.

Training and Drills

Conduct regular training sessions and drills for workers to ensure readiness and competence in emergency situations.

Establish Communication and Coordination

Reliable Communication

Implement effective communication methods between entrants and rescue teams.

Designated Rescue Team

Assign trained personnel responsible for coordinating and executing rescue operations efficiently.

Roles and Responsibilities

Click on the cards to learn more.

Employer

Policy Development

Establish safety policies and procedures for Confined Space entry.

Training Provision

Ensure all workers receive necessary training on confined space hazards and safety protocols.

Equipment Supply

Provide appropriate safety equipment and ensure it is regularly maintained.

Supervisor

Risk Assessment

Conduct thorough assessments of Confined Spaces to identify potential hazards.

Permit Issuance

Oversee the permit-to-work system, ensuring all conditions for safe entry are met.

Procedure Enforcement

Ensure compliance with safety procedures and intervene if unsafe practices are observed.

Entrant

Safety Compliance

Follow all established safety procedures and use personal protective equipment (PPE) correctly.

Hazard Awareness

Remain alert to potential hazards and communicate any concerns immediately.

Emergency Preparedness

Understand emergency procedures and be prepared to act if necessary.

Attendant

Continuous Monitoring

Observe entrants and the Confined Space environment for any signs of danger.

Communication

Maintain constant communication with entrants and be ready to initiate emergency response if required.

Entry Control

Prevent unauthorized entry and ensure all safety measures are in place.

Safety Culture = Prevention





Thank you!

Your commitment to safety ensures
a healthier, more productive
workplace for everyone

