

Confined Space Entry Checklist

1. Risk Assessment Completed:

Ensure a thorough risk assessment of the confined space has been conducted to identify potential hazards.

This involves evaluating the space for environmental, chemical, and physical hazards that could harm workers. Before entering a confined location, a thorough evaluation is required to identify any hazards that workers may encounter. This review should take into account a variety of concerns, including the existence of hazardous gases, the possibility of oxygen deprivation or enrichment, combustible atmospheres, and physical hazards such as moving machinery parts or structure vulnerabilities. The conclusions of this assessment drive the development of safety protocols, as well as the personal protective equipment and emergency procedures required to protect personnel.

2. Entry Permit Issued:

Confirm that an entry permit has been issued, detailing the work scope, identified hazards, and necessary precautions.

The permit should include information on the duration of the task, the names of the entrants, and emergency contact details. An entry permit is a formal document that grants permission to enter a confined location for a specific amount of time. It should outline the scope of work, name the personnel authorized to enter, and offer key safety information, such as potential dangers and risk-mitigation methods. The permit also serves as a communication tool, ensuring that all team members and emergency responders are informed of the current operations and can rapidly access critical information in the event of a crisis.

3. Atmospheric Testing: Check that atmospheric testing for oxygen levels, toxic gases, and flammable vapours has been performed with safe levels verified.

Use appropriate detection instruments to continuously monitor the air before and during entry. Atmospheric testing is a crucial step to ensure the confined space is safe for entry. It involves using specialised gas detection_instruments to measure oxygen levels, detect toxic gases, and identify any flammable vapours present. Continuous monitoring is essential, as atmospheric conditions within a confined space can change rapidly due to work activities or changes in the external environment, posing immediate risks to workers' health and safety.



4. Isolation of Hazards:

Verify all mechanical, electrical, and other energy sources have been isolated or controlled through lockout/tagout procedures.

This prevents the accidental release of hazardous energy while workers are in the confined space. Isolating or controlling energy sources through lockout/tagout procedures is a critical safety measure to prevent unexpected energization of machinery, equipment, or electrical systems. This process involves physically locking out power sources and tagging them to indicate they should not be operated until the completion of confined space work. This step is vital to protect workers from the risks of electrical shock, moving parts, and other forms of hazardous energy.

5. Ventilation:

Ensure adequate ventilation is in place to maintain a safe working environment within the confined space.

Use mechanical ventilation systems to supply fresh air and remove contaminated air from the space. Adequate ventilation is key to maintaining a safe environment within a confined space, particularly if the space lacks natural airflow or if work activities may introduce contaminants. Mechanical ventilation systems can help ensure a continuous supply of fresh air and prevent the accumulation of toxic gases or flammable vapours, thereby reducing the risk of health hazards or explosions.

6. Communication Systems:

Confirm that effective communication systems are set up between individuals inside and outside the confined space.

This can involve two-way radios or connected gas detectors to ensure constant contact. Effective communication between workers inside the confined space and the team outside is critical to safety and coordination.

These communication methods are critical for regular check-ins, reporting any concerns or changes in conditions, and rapidly organizing responses in the event of an emergency.



7. Emergency and Rescue Plans: Ensure emergency and rescue plans are established and that rescue equipment is readily available.

Develop a clear plan for rescuing entrants in case of an emergency, including the provision of rescue harnesses and lines. A well-defined emergency and rescue strategy is critical to the safety of workers entering tight places. This plan should explain the measures to take in the event of an emergency, such as evacuating entrants and deploying rescue professionals. The plan should also specify the rescue equipment that will be utilized, including harnesses, lines, and breathing apparatus, and ensuring that rescue personnel are trained and prepared to respond successfully.

8. Personal Protective Equipment (PPE): Check that all entrants have the appropriate PPE, including respiratory protection if required.

Select PPE based on the identified risks, ensuring it is in good condition and fits the wearer properly. Personal Protective Equipment (PPE) is vital for protecting workers from specific threats identified in the confined environment. PPE should be chosen after a comprehensive risk assessment, and may comprise respirators, protective suits, gloves, and eye protection, among others. To achieve maximum protection, PPE must be tested for integrity on a regular basis, appropriately maintained, and fitted to each worker.

9. Training and Competence:

Verify that all individuals involved in the confined space entry are adequately trained and competent in their roles.

This includes training on hazard recognition, equipment uses, and emergency procedures. Training and competence are critical components of confined space safety. Workers must be trained to recognize the hazards associated with confined spaces, understand how to use safety and monitoring equipment, and be familiar with the entry and emergency procedures. Regular training sessions ensure that workers are up to date on the latest safety protocols and can confidently navigate the challenges of confined space work.



10. Supervision: Confirm continuous supervision and monitoring of the confined space work to maintain safety.

A competent person should oversee the operation, ready to implement emergency procedures if necessary. Supervision is critical in ensuring the safety of restricted space operations. A competent supervisor should be assigned to oversee the entry and work within the restricted space, ensuring compliance with safety rules and being prepared to intervene in the event of an emergency. This person should have the authority to interrupt work if conditions become hazardous and to activate emergency response procedures as needed.

11. Entry and Exit Procedures: Confirm that safe entry and exit procedures are established and understood by all entrants.

This includes using appropriate entry and exit methods, such as ladders or manlifts, and ensuring they are unobstructed. When preparing for access and exit in restricted places, it is critical to select ways that are both effective and safe for the space's specific requirements. For example, if the space is vertical, such as a tank or silo, fixed ladders or temporary manlifts may be required to provide safe access. When selecting equipment, consider the depth of the space, the existence of hazardous substances, and the need for emergency evacuation. Additionally, keeping entry and exit paths clean is critical for preventing accidents. Obstructions not only represent a risk during normal access and leave, but they can also considerably impede rescue operations in crises, thereby exacerbating events in confined areas.

12. Health Surveillance:

Ensure health surveillance measures are in place for workers exposed to specific risks.

Monitor the health of workers before and after confined space entry, especially if exposed to hazardous substances. Health surveillance in the context of confined space work entails conducting frequent health checks to determine the influence of the work environment on an individual's health, especially when hazardous substances are present. This proactive method enables for the early detection of any negative health effects caused by exposure to restricted places. Workers exposed to harmful gases, for example, may be required to undergo pulmonary function testing both before and after admission to guarantee that their lungs have not been harmed. This continuous monitoring assists in initiating prompt interventions, modifying work practices, and giving treatment as needed, thereby protecting worker health and guaranteeing compliance with occupational health requirements.



13. Gas Detection Equipment: Check that gas detection equipment is calibrated and functioning correctly.

Regularly calibrate sensors and alarms to ensure they provide accurate readings and alerts for hazardous conditions. Accuracy and reliability are critical to the usefulness of atmospheric monitoring devices in restricted places. Regular calibration ensures that this equipment offer precise results, which is essential for detecting hazardous circumstances like toxic gas concentrations, oxygen shortage, or explosive atmospheres. Calibration entails changing the instrument's reaction to match a known reference, ensuring that the measurements are consistent and dependable. This process is critical to worker safety because it has a direct impact on decision-making during confined space entry and work. Inaccurate readings may result in undetected hazardous circumstances, putting workers at danger, whereas properly calibrated equipment contributes to a safer working environment by allowing for quick detection and response to possible risks.

14. Lighting and Emergency Lighting:

Ensure adequate lighting and emergency lighting are in place within the confined space.

Provide portable, explosion-proof lighting to ensure visibility, and have emergency lighting ready in case of power failure. Visibility in restricted locations is sometimes reduced due to a lack of natural light, hence portable illumination is vital for safe operations. However, the presence of flammable gases or vapours necessitates the employment of explosion-proof lighting equipment to avoid the ignition of these substances. Such lighting is intended to keep any sparks or flames inside the gadget, preventing external explosions. Furthermore, emergency illumination is critical for allowing workers to safely leave the confined space in the event of a power outage or other emergency. This illumination should be battery-powered and activated automatically when the major lighting system fails, ensuring visibility along escape routes and lowering the danger of panic or harm during evacuations.

15. Signage and Barricading:

Verify that appropriate signage and barricading are in place to prevent unauthorised entry.

Use signs to indicate the presence of a confined space and barriers to restrict access to authorised personnel only. Effective signage and barricades are essential components of restricted space safety management. Signs should be prominently placed to warn workers and visitors of the presence of confined spaces and the potential hazards they may contain. This signage serves as a deterrent to unlawful entry and ensures that only trained and adequately equipped individuals enter certain locations. Furthermore, physical barriers such as barricades or fences serve to physically restrict access, lowering the chance of unintentional or illegal entry. These precautions are critical not just for the safety of personnel working in confined spaces, but also for the overall workplace, as they assist in preventing unintentional interference with confined space operations and potential rescue efforts.