MERCURY

Confined Space Assessor Training Course

3 – 7 May 2027
Barcelona (Spain)



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Confined Space Assessor Training Course

Ref: 16040_1003839 **Date:** 3 – 7 May 2027 **Location:** Barcelona (Spain) **Fees:** 5600 Euro

Introduction:

The Confined Space Assessor course provides professionals with specialized knowledge and practical skills to ensure safe and compliant operations within confined spaces. Confined spaces present a wide range of hazards such as oxygen deficiency, toxic gases, engulfment risks, and restricted entry that require specialized evaluation and management. This confined space safety training equips participants with advanced techniques in hazard identification, risk assessment, and permit-to-work systems.

The Confined Space Assessor program emphasizes compliance with international standards and regulatory requirements, including OSHA confined space training guidelines. Participants will gain hands-on skills in atmospheric monitoring, documentation, and emergency preparedness. The course ensures that confined space assessors develop the competence to conduct thorough inspections and evaluations.

Through applied learning, case studies, and real-world scenarios, learners will understand how to minimize risks and safeguard personnel. Participants will learn how to carry out professional confined space risk assessments and contribute to stronger workplace safety systems. This Confined Space Assessor training course offers not only theoretical foundations but also practical field-oriented applications.

Targeted Groups:

This Confined Space Assessor training course targets professionals seeking specialized knowledge and skills:

- Safety officers and health and safety advisors.
- Maintenance supervisors and operations managers.
- Industrial safety engineers and technicians.
- Emergency response and rescue team members.
- Project and site supervisors in construction and oil & gas.
- Risk management and compliance professionals.
- Environmental, health, and safety EHS practitioners.
- Personnel managing confined space permit training.
- Confined space entry and rescue team leaders.
- Utility, petrochemical, and facility maintenance staff.
- Supervisors in mining, manufacturing, and heavy industries.
- Anyone requiring confined space assessor certification.

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Course Objectives:

Participants will achieve the following objectives by completing the Confined Space Assessor course:

- Identify and classify different types of confined spaces and associated hazards.
- Interpret legal obligations and industry-specific requirements for confined space assessors.
- Apply structured methodologies for confined space risk assessment.
- Develop safe entry and exit procedures aligned with best practices.
- Evaluate atmospheric conditions using advanced testing and monitoring equipment.
- Select and implement hazard control measures to reduce risks.
- Design and operate effective permit-to-work systems for confined spaces.
- Conduct detailed hazard evaluations and communicate findings.
- Differentiate between low, medium, and high-risk confined space operations.
- Demonstrate knowledge of emergency preparedness and rescue procedures.
- Perform compliance inspections to ensure regulatory standards.
- Document assessment findings with precision and consistency.
- Collaborate effectively with supervisors, assessors, and entry teams.
- Recommend ventilation and engineering solutions for safe working conditions.
- Utilize checklists and risk control documentation effectively.
- Maintain updated confined space registers and reporting systems.
- Implement continuous monitoring strategies to ensure worker safety.
- Supervise confined space operations with confidence and authority.
- Conduct post-entry analysis and review of incidents for safety improvement.
- Promote a culture of accountability, prevention, and continuous safety learning.

Targeted Competencies:

Participants will gain the following competencies during the Confined Space Assessor program:

- Ability to recognize and classify confined spaces accurately.
- Strong hazard identification and confined space awareness skills.
- Competence in planning, managing, and controlling entry operations.
- Proficiency in atmospheric monitoring and test result interpretation.
- Capability to design safety controls and emergency procedures.
- Understanding of compliance with confined space supervisor responsibilities.
- Effective communication and coordination with teams.
- Skilled in applying structured checklists, tools, and documentation.
- Ability to monitor compliance through confined space inspection training.

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• Confidence in evaluating site readiness and improving safety culture.

Course Content:

Unit 1: Fundamentals of Confined Spaces and Regulatory Frameworks:

• Define confined spaces and compare them with enclosed spaces.
• Identify confined space types across construction, oil & gas, and utilities.
• Recognize common hazards such as toxic gases, entrapment, and restricted access.
• Explore confined space awareness requirements for workers.
• Understand global and national legal requirements.
• Review employer and assessor obligations in compliance systems.
• Examine OSHA confined space training regulations.
• Study international incident cases and lessons learned.
• Identify key responsibilities within confined space entry teams.
• Learn about confined space permit training processes and authorization.
• Apply the hierarchy of hazard controls in confined space scenarios.

Unit 2: Hazard Identification and Risk Assessment for Confined Spaces:

• Conduct site-specific assessments to locate confined spaces.
• Identify atmospheric, mechanical, and biological hazards.
• Apply structured methods of confined space risk assessment.
• Use job hazard analysis for confined space entry planning.
• Evaluate exposure risks such as flammability and oxygen deficiency.
• Determine engineering and administrative control measures.
• Examine hazard registers and documentation tools.
• Analyze risks in dynamic work environments like petrochemical plants.
• Study confined space assessor course with certificate requirements.
• Integrate monitoring results into assessment reports.

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Unit 3: Safety Control Measures and Atmospheric Testing:

- Select gas detection and monitoring devices.
- Perform oxygen level, toxic gas, and flammable vapor testing.
- Establish safe entry conditions before authorization.
- Plan ventilation strategies for confined space environments.
- Apply isolation procedures such as lockout/tagout.
- Determine PPE requirements for different entry levels.
- Set up barriers, signage, and access restrictions.
- Ensure rescue equipment readiness.
- Implement ongoing confined space monitoring training.
- Maintain emergency communication throughout operations.

Unit 4: Permit-to-Work Systems and Documentation:

- Define the structure and purpose of a confined space entry training for workers permit.
- Establish approval, verification, and authorization workflows.
- Assign roles to issuers, receivers, and observers.
- Record findings, validations, and compliance details.
- Monitor permit validity and renewal requirements.
- Conduct pre-entry team briefings and equipment checks.
- Integrate permits into overall worksite safety management systems.
- Conduct permit audits to assess compliance.
- Ensure accurate documentation for legal and operational purposes.
- Apply certified confined space assessor training documentation practices.

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Unit 5: Emergency Response and Post-Entry Assessment:

- Develop site-specific confined space entry and rescue training plans.
- Assign responsibilities for standby rescue teams.
- Conduct drills simulating confined space emergencies.
- Evaluate rescue hierarchies and incident command systems.
- Ensure emergency communication reliability.
- Record and review post-entry findings.
- Investigate confined space incidents and near-misses.
- Revise risk assessments and controls post-incident.
- Promote continuous improvement in confined space operations.
- Enhance safety culture through training and leadership.

Final Insights & Key Takeaways:

The Confined Space Assessor training course equips participants with essential tools to ensure safe, compliant, and effective confined space operations. It strengthens professional skills in risk assessment, hazard control, and permit-to-work systems. Learners gain both theoretical understanding and practical application through real-world exercises. Certified participants will demonstrate competence in planning, supervising, and managing confined space work. This program enhances both individual expertise and organizational safety performance.