



EXAMINATION PREPARATION

This Examination guide provides a comprehensive overview of the exam structure for those pursuing the Certified Confined Space Manager – General Industry (CCSPM-GI™) certification. It ensures the test aligns with core knowledge areas, emphasizes real-world application, and includes proper training and regulatory content.

Certification Examination Preparation Guideline

Certified Confined Space Manager – General Industry (CCSM-GI)

1. Examination Purpose and Target Audience

- **Purpose:** To evaluate the knowledge, skills, and competencies required for professionals to effectively train others on confined space safety and compliance, focusing on real-world applications and regulatory adherence.
 - **Target Audience:** Safety and health professionals, supervisors, or consultants with experience in confined space operations who seek certification to instruct employees or peers on confined space entry, hazard management, and rescue techniques.
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2. Exam Structure

Component	Number of Questions	Weight (%)
Knowledge-Based Questions	50	50%
Case-Based Scenarios	5	30%
Training Techniques Evaluation	1	20%

Total Duration: 3 hours

Passing Score: 80%

3. Key Competency Areas

A. Introduction to Confined Space (25%)



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- **Topics Covered:**

- Definitions and classifications of confined spaces.
- Permit-required vs. non-permit-required confined spaces.
- Hazards associated with confined spaces.

- **Question Types:** Multiple Choice, True/False, Matching.

B. Regulatory Standards and Compliance (20%)

- **Topics Covered:**

- OSHA 29 CFR 1910.146: Employer and employee Responsibilities, permits, and emergency protocols.
- ANSI Z117.1: Updates, differences between ANSI and OSHA.

- **Question Types:** Multiple Choice, Short Answer.

C. Hazard Identification and Control (20%)

- **Topics Covered:**

- Atmospheric and physical hazards (e.g., oxygen deficiency, toxic gases, engulfment).
- Use of gas detectors, ventilation systems, and hazard mitigation strategies.

- **Question Types:** Case-Based, Multiple Choice.

D. Rescue and Emergency Operations (20%)



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- **Topics Covered:**

- Types of confined space rescues (non-entry, entry, and complex).
- Equipment use (tripods, winches) and knot tying for rescue operations.

- **Question Types:** Scenario-Based, Practical Evaluation.

E. Training and Communication Techniques (15%)

- **Topics Covered:**

- Effective training strategies for adult learners.
- Developing competency in team roles (entrant, attendant, supervisor).
- Communication protocols during confined space operations.

- **Question Types:** Multiple Choice, Role Play, Practical Demonstration.

4. Examination Format

- **Question Distribution:**

- Multiple Choice: 40-50%.
Short Answer: 20%.



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- Case-Based/Scenario-Based: 20%.
Practical Evaluation (Demonstration/Role Play): 10-20%.

- **Assessment Tools:**

- Written test for theoretical knowledge.
 - Hands-on evaluation for real-world application and problem-solving.
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5. Example Questions

A. Knowledge-Based Question:

Multiple Choice

Which of the following is a defining characteristic of a permit-required confined space?

- a) Limited or restricted means of entry or exit.
- b) Contains a hazardous atmosphere.
- c) Is designed for continuous human occupancy.
- d) Requires a ladder for entry.

Answer: b) Contains a hazardous atmosphere.

B. Case-Based Scenario:

Scenario

You are tasked with supervising a confined space entry for tank cleaning.



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The pre-entry atmospheric test indicates an oxygen concentration of 19.5%.

- **Question:** What is your next step before allowing entry?
 - a) Proceed with entry.
 - b) Ventilate the space until oxygen levels reach 20.9%.
 - c) Issue a permit based on the current reading.
 - d) Continuous monitoring will be conducted while entry is underway.

Answer: b) Ventilate the space until oxygen levels reach 20.9%.

C. Training Techniques Evaluation:

Role Play

You are asked to demonstrate how to teach a team to use a tripod and winch system for confined space rescue. Your evaluation will focus on:

1. Clarity of instruction.
2. Hands-on team engagement.
3. Demonstration of equipment setup and use.

6. Training Alignment

- Aligns with **ANSI Z490.1** principles for effective safety training.
- Includes regulatory knowledge from **OSHA 29 CFR 1910.146** and **ANSI Z117.1**.



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- Incorporates practical skill-building and real-world scenarios.

7. Certification Process

- **Competency Demonstration:** Includes practical assessments on atmospheric testing, hazard mitigation, and rescue techniques.
- **Final Assessment:** Written and practical exams covering all competency areas.
- **Certification Award:** Candidates achieving a passing score receive IASHEP's CCSM-GI CRTT™ certification.

This comprehensive exam ensures candidates have the knowledge and skills to deliver confined space training and maintain workplace safety standards effectively.

- Simulation Labs and Workshops on Training Techniques



NOTHING ELSE FOLLOWS