MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

GAS TEST ATMOSPHERE

"Detect, Assess, and Control – Ensuring Safety in Confined and Hazardous Environments"

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► **Available delivery methods:** In-House Training

Introduction

This essential training program equips participants with the knowledge and skills to conduct atmospheric gas testing safely and effectively in potentially hazardous environments such as confined spaces, process plants, and maintenance areas. Understanding the risks of flammable, toxic, and oxygen-deficient atmospheres is critical for safe entry and work operations.

Participants will gain hands-on experience with gas detection equipment, interpreting readings, and understanding safe limits in compliance with international safety standards (e.g., OSHA, ISO 45001, and AS/NZS 2865).

Objectives

By the end of this course, participants will be able to:

- Identify the hazards associated with various atmospheric gases
- Understand the principles of gas detection and monitoring
- Safely use and calibrate gas detection instruments
- Interpret test results and apply decision-making criteria
- Implement safety protocols based on gas testing outcomes
- Maintain and document atmospheric monitoring records

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Why Attend

- Protect life and prevent accidents from invisible hazards
- Mandatory skill for confined space and hazardous area work
- Ensures legal compliance with safety and worksite standards
- Boosts operational awareness and on-site hazard response capability

Target Audience

This course is ideal for:

- Confined space entry teams
- Safety officers and supervisors
- Maintenance and shutdown crews
- Emergency response personnel
- Process plant operators and inspectors

Individual Benefits

- Gain confidence in detecting and managing atmospheric hazards
- Hands-on skills in using detection instruments
- Learn real-world scenarios and safety decision-making
- Increased job qualification for high-risk work environment

Organizational Benefits

- Prevent accidents caused by undetected gas hazards
- Ensure safe work procedures and legal compliance
- Reduce downtime from incidents or regulatory breaches
- Strengthen your organization\'s safety culture

Instructional Methodology

- **Interactive Classroom Training**
- **Real-World Gas Testing Simulations**
- **Demonstration of Monitoring Devices**
- **Group Exercises & Risk Assessments**
- **End-of-Course Competency Evaluation**

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Course Outline

Detailed 5-Day Course Outline (Customizable)

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Understanding Atmospheric Hazards

- **Module 1:** Introduction to Hazardous Atmospheres (07:30 – 09:30)
- **Module 2:** Properties and Behavior of Gases (09:45 – 11:15)
- **Module 3:** Toxic, Flammable, and Oxygen-Deficient Atmospheres (11:30 – 01:00)
- **Module 4:** Hazard Identification Workshop (02:00 – 03:30)

Day 2: Gas Detection Principles

- **Module 1:** Types of Gas Detectors and Sensors (07:30 – 09:30)
- **Module 2:** Calibration and Bump Testing (09:45 – 11:15)
- **Module 3:** Limits of Detection – LEL, UEL, PPM, %O2 (11:30 – 01:00)
- **Module 4:** Practical: Detector Setup and Operation (02:00 – 03:30)

Day 3: Testing Procedures and Decision-Making

- **Module 1:** Pre-Entry Atmospheric Testing Protocols (07:30 – 09:30)
- **Module 2:** Interpreting Readings and Thresholds (09:45 – 11:15)
- **Module 3:** Risk Mitigation Based on Results (11:30 – 01:00)
- **Module 4:** Workshop – Testing Scenarios & Response Plans (02:00 – 03:30)

Day 4: Special Conditions and Emergency Response

- **Module 1:** Gas Testing in Confined Spaces & Enclosed Areas (07:30 – 09:30)
- **Module 2:** Ventilation and Purging Considerations (09:45 – 11:15)
- **Module 3:** Incident Response to Unsafe Atmospheres (11:30 – 01:00)
- **Module 4:** Practical Drill – Simulated Hazard Environments (02:00 – 03:30)

Day 5: Competency Assessment and Certification

- **Module 1:** Gas Test Plan Creation and Hazard Review (07:30 – 09:30)
- **Module 2:** Practical Skills Test with Gas Detection Equipment (09:45 – 11:15)
- **Module 3:** Final Written Exam (11:30 – 01:00)
- **Module 4:** Certification Ceremony & Course Wrap-Up (02:00 – 03:30)

Certification

Upon successful completion, participants will be awarded an **International Certificate of Competence in Gas Testing and Atmospheric Monitoring**, recognized across safety-critical industries.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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