



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Gas Testing & Detection

Custom Courses / Health, Safety and Environment (HSE)

Unit Standard AATICD-0325 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely and effectively conduct gas testing and detection in hazardous environments. It covers the principles of gas detection, the use of portable gas detectors, and the interpretation of readings to ensure a safe working atmosphere, thereby reducing the risk of fire, explosion, and toxic exposure.

Category	Custom Courses
Subfield	Health, Safety and Environment (HSE)
Unit Standard	AATICD-0325
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply the principles of gas detection to identify potential atmospheric hazards in the workplace.
- Demonstrate the correct use and calibration of portable gas detection equipment.
- Analyze gas readings and determine appropriate responses to ensure safe working conditions.
- Implement procedures for gas testing in confined spaces and other hazardous environments.
- Evaluate the limitations of gas detection equipment and implement strategies to mitigate risks.
- Design a basic gas testing plan for a given work scenario, including monitoring and control measures.

WHO SHOULD ATTEND

- This course is designed for safety officers, supervisors, and workers who are required to perform gas testing in confined spaces, hazardous areas, or industrial settings.
- It is also suitable for anyone responsible for ensuring atmospheric safety in the workplace.

COURSE OUTLINE

Day 1: Introduction to Gas Testing & Detection

- Overview of gas testing and detection
- Types of hazardous atmospheres (flammable, toxic, oxygen-deficient/enriched)
- Properties of common gases (e.g., H₂S, CO, CH₄, O₂)
- Legislation and standards (OHSA, SANS, COPs)
- Duties of a competent person
- Introduction to gas detection equipment

Day 2: Gas Detection Equipment & Calibration

- Portable and fixed gas detectors
- Sensor technologies and their limitations
- Calibration and bump testing procedures
- Maintenance and care of equipment
- Interpreting readings and alarms
- Troubleshooting and error states

Day 3: Confined Space Entry & Gas Testing Procedures

- Confined space identification and classification
- Permit-required confined spaces
- Pre-entry testing protocols
- Continuous monitoring and re-testing
- Documentation and record keeping
- Emergency procedures and rescue considerations

Day 4: Risk Assessment & Decision Making

- Risk assessment principles and methods
- Exposure limits (OEL, STEL, IDLH)
- Interpreting gas test results
- Establishing safe entry conditions
- Communication and handover procedures
- Case studies and incident analysis

Day 5: Practical Application & Assessment

- Simulated confined space entry scenarios
- Practical exercises with various gas detectors
- Calibration and bump testing practice
- Documentation and reporting
- Review of key concepts
- Final competency assessment

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,700.00	R 17,700.00
1	In-House	R 23,100.00	R 23,100.00
1	On-Campus (Pretoria)	R 26,700.00	R 26,700.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Oct 2026	09 Oct 2026	On-Campus	Kigali, Rwanda
05 Oct 2026	09 Oct 2026	On-Campus	Bangkok, Thailand
05 Oct 2026	09 Oct 2026	On-Campus	Lusaka, Zambia
05 Oct 2026	09 Oct 2026	Online	—
05 Oct 2026	09 Oct 2026	On-Campus	Windhoek, Namibia
05 Oct 2026	09 Oct 2026	On-Campus	Nairobi, Kenya
05 Oct 2026	09 Oct 2026	On-Campus	Mbabane, Eswatini
12 Oct 2026	16 Oct 2026	On-Campus	London, UK

Contact us if no suitable date is listed — on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

- 1. Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0325) and click **Get A Quote / Apply**. Select your training method and number of delegates — your quotation is generated immediately and emailed to you with the course brochure attached.
- 2. Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za — our team will reply with a formal quotation.
- 3. Apply by phone or WhatsApp:** call +27 12 004 8389 or WhatsApp +27 65 077 6310 and we will prepare your quotation and reserve your seats.
- 4. Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically — the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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