



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

Low Velocity Air Flow Rate Measurement

Health Sciences and Social Services / Preventive Health

Unit Standard 259603 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to accurately measure low velocity and volume flow rates of air in various industrial and occupational hygiene contexts. Participants will learn to select, calibrate, and use appropriate instruments, interpret results, and apply measurement data to ensure compliance with health and safety standards. The course is designed to enhance workplace safety by enabling effective monitoring of ventilation systems and airborne contaminants.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	259603
Accreditation	SAQA Accredited · NQF Level 2 · 2 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of airflow measurement to select suitable instruments for low velocity and volume flow rate determination.
- Demonstrate correct calibration and operation of thermal anemometers, vane anemometers, and other airflow measurement devices.
- Analyze measurement data to calculate volume flow rates and assess ventilation system performance.
- Evaluate measurement results against occupational exposure limits and ventilation standards.
- Implement corrective actions based on measurement findings to improve air quality and safety.
- Document measurement procedures, results, and recommendations in accordance with industry protocols.

WHO SHOULD ATTEND

- This course is intended for occupational hygiene practitioners, safety officers, ventilation engineers, and technicians responsible for assessing and controlling air quality in industrial, mining, or commercial environments.

COURSE OUTLINE

Day 1: Principles and Measurement of Low Velocity Air Flow

- Introduction to low velocity air flow: definitions and applications
- Principles of air flow measurement: velocity, pressure, and density
- Types of instruments: anemometers (hot-wire, vane), pitot tubes, and manometers
- Instrument selection, calibration, and limitations
- Measurement techniques: traverse method and single-point measurement
- Calculation of flow rate from velocity and duct area
- Safety considerations and standard operating procedures
- Data recording, analysis, and reporting

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 **2 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Mauritius
11 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	17 Aug 2026	On-Campus	Shenzhen, China
18 Aug 2026	18 Aug 2026	On-Campus	Dubai, UAE

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 259603) 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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