



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

Barometric Pressure Measurement with Electronic and Mechanical Instruments

Health Sciences and Social Services / Preventive Health

Unit Standard 259642 · NQF Level 2 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to accurately measure barometric pressure using both electronic and mechanical instruments. It ensures that participants can select, calibrate, and interpret readings from barometers in various occupational settings, supporting weather monitoring and process control. The training emphasizes safety, precision, and compliance with relevant standards.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	259642
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

- Explain the principles of barometric pressure and its significance in meteorological and industrial contexts.
- Demonstrate the correct use of electronic barometers, including setup, calibration, and data logging.
- Demonstrate the correct use of mechanical barometers, such as aneroid and mercury barometers, ensuring accurate readings.
- Apply appropriate corrective factors (e.g., temperature, altitude) to obtain true barometric pressure values.
- Analyze measurement results to identify trends and anomalies, and report findings in a standard format.
- Evaluate instrument performance and troubleshoot common errors in barometric pressure measurement.

WHO SHOULD ATTEND

- This course is designed for technicians, engineers, and environmental health practitioners who require competence in barometric pressure measurement for weather observation, aviation, or industrial applications.

COURSE OUTLINE

Day 1: Barometric Pressure Measurement Principles and Instruments

- Introduction to barometric pressure: units, atmospheric pressure, and measurement principles.
- Mechanical instruments: aneroid barometers, mercury barometers, and their operation.
- Electronic instruments: capacitive, piezoresistive, and MEMS sensors.
- Comparison of accuracy, resolution, and environmental factors affecting measurements.
- Calibration standards and traceability to national reference.
- Safety considerations when handling mercury and electronic instruments.
- Data logging and interpretation of barometric trends.
- Troubleshooting common issues in the field.

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
06 Jul 2026	06 Jul 2026	On-Campus	Mombasa, Kenya
07 Jul 2026	07 Jul 2026	On-Campus	Luanda, Angola
08 Jul 2026	08 Jul 2026	On-Campus	Kigali, Rwanda
09 Jul 2026	09 Jul 2026	On-Campus	Kinshasa, DRC
10 Jul 2026	10 Jul 2026	On-Campus	Kampala, Uganda
10 Jul 2026	10 Jul 2026	On-Campus	Mbabane, Eswatini
13 Jul 2026	13 Jul 2026	On-Campus	Dar es Salaam, Tanzania
13 Jul 2026	13 Jul 2026	On-Campus	Luanda, Angola

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 259642) 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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