



Accredited Africa Training Institute for Capacity Development

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

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Electrical Measuring Instruments Selection and Care

Physical Planning and Construction / Electrical Infrastructure Construction

Unit Standard 10237 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to select, use, and care for electrical measuring instruments in a safe and effective manner. Participants will learn to identify appropriate instruments for specific tasks, perform accurate measurements, and maintain equipment to ensure longevity and reliability.

Category	Physical Planning and Construction
Subfield	Electrical Infrastructure Construction
Unit Standard	10237
Accreditation	SAQA Accredited · NQF Level 2 · 4 Credits
Duration	1 day
Training Method	On-Campus
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Select appropriate electrical measuring instruments for given tasks based on range, accuracy, and application.
- Demonstrate correct procedures for connecting and using ammeters, voltmeters, ohmmeters, and multimeters.
- Apply safety precautions when using electrical measuring instruments to prevent injury and equipment damage.
- Analyze measurement results to verify circuit conditions and identify faults.
- Implement routine care and storage procedures to maintain instrument accuracy and prolong service life.

WHO SHOULD ATTEND

- This course is designed for electricians, technicians, and maintenance personnel who work with electrical systems and require practical skills in using measuring instruments.
- It is also suitable for apprentices and trainees in the electrical field.

COURSE OUTLINE

Day 1: Fundamentals of Electrical Measuring Instruments

- Overview of electrical measuring instruments: multimeters, clamp meters, insulation testers, oscilloscopes.
- Key specifications: range, accuracy, resolution, and category ratings.
- Selection criteria based on measurement parameters (voltage, current, resistance, frequency).
- Safety ratings (CAT I-IV) and their importance in selection.
- Proper handling and storage to prevent damage.
- Routine care: cleaning, battery replacement, and fuse checks.
- Basic calibration verification using known references.
- Documentation and record-keeping for instrument maintenance.

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 **4 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
07 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	18 Aug 2026	On-Campus	Harare, Zimbabwe
18 Aug 2026	18 Aug 2026	On-Campus	Shenzhen, China
26 Aug 2026	26 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
26 Aug 2026	26 Aug 2026	On-Campus	Bangkok, Thailand

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 10237) 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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