



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

Intrinsically Safe Apparatus And Circuits Detailed Inspection Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110404 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to conduct detailed inspections of intrinsically safe apparatus and circuits in hazardous locations. Participants will learn to verify compliance with SANS 60079 standards, identify defects, and recommend corrective actions to ensure safety in explosive atmospheres.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110404
Accreditation	SAQA Accredited · NQF Level 2 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate understanding of intrinsic safety principles and applicable standards (SANS 60079 series).
- Inspect intrinsically safe apparatus for compliance with certification documentation and installation requirements.
- Verify the integrity of intrinsically safe circuits including barriers, isolators, and wiring.
- Identify common defects and non-conformities in intrinsically safe systems and recommend corrective actions.
- Document inspection findings and complete detailed inspection reports according to organizational procedures.

WHO SHOULD ATTEND

- Electrical technicians, safety inspectors, and engineers responsible for maintaining and inspecting intrinsically safe systems in industries such as mining, petrochemical, and manufacturing.

COURSE OUTLINE

Day 1: Intrinsically Safe Apparatus and Circuits Detailed Inspection

- Introduction to intrinsic safety and hazardous area classification.
- Standards and regulations (e.g., SANS 60079, IECEx).
- Components of intrinsically safe systems: barriers, isolators, apparatus.
- Inspection criteria: labeling, wiring, earth connections, segregation.
- Use of inspection tools: multimeter, loop calibrator, spark test apparatus.
- Common faults and non-compliances.
- Documentation and reporting requirements.
- Practical inspection exercise.

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 **3 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
04 Aug 2026	04 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	05 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	10 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, 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 110404) 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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