



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

Construction Materials Identification And Properties Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 110314 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge to identify and describe the properties of common construction materials used in the South African building industry. Participants will understand material behaviour, selection criteria, and basic testing methods to ensure quality and compliance with industry standards.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	110314
Accreditation	SAQA Accredited · NQF Level 2 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify common construction materials (e.g., concrete, steel, timber, brick) and their key characteristics.
- Describe the physical and mechanical properties of construction materials, including strength, durability, and workability.
- Apply basic testing methods to assess material quality and suitability for specific construction applications.
- Interpret material data sheets and specifications to select appropriate materials for given construction scenarios.
- Evaluate the impact of environmental factors (e.g., moisture, temperature) on material performance.
- Demonstrate compliance with relevant South African National Standards (SANS) in material identification and usage.

WHO SHOULD ATTEND

- This course is designed for construction workers, site supervisors, and aspiring building inspectors who need foundational knowledge of construction materials and their properties.

COURSE OUTLINE

Day 1: Introduction to Construction Materials and Properties

- Overview of construction materials: concrete, steel, timber, bricks, aggregates
- Physical properties: density, porosity, moisture content
- Mechanical properties: strength, hardness, elasticity, durability
- Material selection criteria for different construction contexts
- Quality control and testing methods
- Environmental and sustainability considerations

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
03 Aug 2026	03 Aug 2026	On-Campus	Cape Town, South Africa
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

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 110314) 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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