



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

Precast Concrete Element Production Management And Quality Control Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 116561 · NQF Level 4 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to manage precast concrete element production and implement quality control measures. It focuses on production planning, process monitoring, and adherence to quality standards in a precast concrete manufacturing environment.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	116561
Accreditation	SAQA Accredited · NQF Level 4 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply production planning techniques to optimize precast concrete element manufacturing processes.
- Monitor production processes to ensure compliance with specifications and quality standards.
- Evaluate quality control data to identify non-conformances and implement corrective actions.
- Implement quality management systems in accordance with industry standards.
- Demonstrate effective communication and team coordination in a production environment.
- Analyze production records to improve efficiency and reduce waste.

WHO SHOULD ATTEND

- Production supervisors, quality controllers, and managers in precast concrete manufacturing plants seeking to enhance their production management and quality assurance competencies.

COURSE OUTLINE

Day 1: Foundations of Precast Concrete Production and Quality Assurance

- Introduction to precast concrete: types, applications, and benefits.
- Overview of production processes: mould preparation, reinforcement placement, casting, curing, and demoulding.
- Quality management systems: ISO 9001, SANS 2001, and SAQA unit standards.
- Material quality control: aggregates, cement, water, admixtures, and reinforcement.
- Testing of fresh concrete: slump, air content, temperature, and density.
- Curing methods and their impact on concrete properties.
- Common defects: honeycombing, cracking, surface blemishes, and dimensional inaccuracies.
- Documentation and record-keeping for quality assurance.

Day 2: Advanced Quality Control, Problem Solving, and Production Management

- Non-destructive testing methods: ultrasonic, rebound hammer, and cover meter.
- Statistical process control (SPC) and control charts for monitoring production.
- Production planning: batch scheduling, resource allocation, and workflow optimisation.
- Root cause analysis and corrective action planning for quality failures.
- Health and safety in precast plants: handling heavy elements, chemical safety, and PPE.
- Environmental management: waste reduction, water conservation, and dust control.
- Final inspection and acceptance criteria for precast elements.
- Case studies and practical exercises in quality management.

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 **5 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	04 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	04 Aug 2026	On-Campus	Mauritius
03 Aug 2026	04 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
11 Aug 2026	12 Aug 2026	On-Campus	Mauritius
11 Aug 2026	12 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 116561) 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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