



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

Pan Filter Operation For Liquid Solid Separation Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110184 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to operate a pan filter for liquid-solid separation in industrial processes. Participants will understand the principles of filtration, safe operating procedures, and maintenance requirements to ensure efficient and safe separation of solids from liquids.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110184
Accreditation	SAQA Accredited · NQF Level 2 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to safely start up, operate, and shut down a pan filter system according to standard operating procedures.
- Apply correct procedures for monitoring and adjusting filtration parameters to achieve optimal liquid-solid separation.
- Identify and troubleshoot common operational problems such as blinding, uneven cake formation, or vacuum loss.
- Perform routine maintenance checks and cleaning procedures to ensure equipment reliability and longevity.
- Evaluate the quality of filtrate and cake discharge to ensure compliance with process specifications.
- Implement relevant health, safety, and environmental protocols during pan filter operation.

WHO SHOULD ATTEND

- Process operators, plant technicians, and maintenance personnel in mining, chemical, or wastewater treatment industries who are involved in or responsible for pan filter operations.

COURSE OUTLINE

Day 1: Introduction to Pan Filter Operation and Principles

- Overview of liquid-solid separation in mineral processing
- Role of pan filters in dewatering and filtration
- Main components: filter cloth, vacuum system, feed system, discharge mechanism
- Operating principles: cake formation, washing, drying, discharge
- Safety protocols: lock-out/tag-out, PPE, hazard identification
- Filter media types and selection criteria

Day 2: Pan Filter Operation and Control

- Pre-start inspection and start-up sequence
- Setting and adjusting vacuum levels
- Controlling feed rate and slurry density
- Monitoring cake moisture and thickness
- Troubleshooting: blinding, cracking, uneven cake, vacuum loss
- Effect of particle size, solids concentration, and viscosity
- Process control: manual and automated adjustments

Day 3: Maintenance, Optimisation, and Best Practices

- Routine maintenance schedule: cleaning, lubrication, inspections
- Filter cloth replacement and tensioning procedures
- Seal and valve maintenance
- Optimisation techniques: reducing cake moisture, increasing throughput
- Energy efficiency and cost reduction strategies
- Shutdown procedures and emergency stops
- Documentation and reporting

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 **6 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	06 Aug 2026	On-Campus	Mauritius
05 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Mauritius
11 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	13 Aug 2026	On-Campus	Cape Town, 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 110184) 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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