



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

Industrial Filtration Techniques For Solids And Liquids Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110169 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to select, operate, and maintain industrial filtration systems for separating solids from liquids. It covers filtration principles, equipment types, troubleshooting, and compliance with industry standards to ensure efficient and safe filtration processes.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110169
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

- Explain the principles of solid-liquid separation and filtration mechanisms.
- Select appropriate filtration equipment based on process requirements and material characteristics.
- Operate filtration systems safely and efficiently according to standard operating procedures.
- Perform routine maintenance and troubleshooting on filtration equipment.
- Evaluate filtration performance and recommend improvements to optimize throughput and quality.
- Comply with relevant health, safety, and environmental regulations during filtration operations.

WHO SHOULD ATTEND

- This course is designed for process technicians, plant operators, maintenance personnel, and engineers involved in solid-liquid separation processes in industries such as water treatment, food and beverage, pharmaceuticals, and mining.

COURSE OUTLINE

Day 1: Fundamentals of Industrial Filtration for Solids and Liquids

- Introduction to filtration: definitions, mechanisms (cake, depth, cross-flow).
- Filter media types: woven fabrics, non-wovens, membranes, cartridges.
- Equipment overview: pressure filters, vacuum filters, centrifuges, bag filters.
- Key performance parameters: flow rate, pressure drop, particle size, cake resistance.
- Selection criteria for filtration systems based on slurry characteristics.
- Basic troubleshooting: common issues (blinding, channeling, leakage) and corrective actions.
- Maintenance procedures: cleaning, replacement schedules, and monitoring.
- Safety and environmental aspects: handling of filter cakes, waste disposal, and PPE.

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	Pretoria, South Africa
04 Aug 2026	04 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Mauritius
07 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	12 Aug 2026	On-Campus	Mauritius

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 110169) 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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