



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

Vacuum Tank Filter Operation For Liquid Solid Separation Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110402 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to operate vacuum tank filters for liquid solid separation in industrial processes. Participants will understand the principles of filtration, safely start up and shut down equipment, and perform routine maintenance to ensure efficient separation. The course emphasises safety protocols and adherence to standard operating procedures.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110402
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

- Demonstrate the ability to start up, operate, and shut down a vacuum tank filter system according to standard operating procedures.
- Apply safety protocols and identify potential hazards associated with vacuum tank filter operation.
- Monitor and adjust filtration parameters to achieve optimal liquid solid separation.
- Perform routine inspections and basic maintenance on vacuum tank filter components.
- Analyse common operational problems and implement corrective actions.
- Record and report operational data accurately for process control and compliance.

WHO SHOULD ATTEND

- This course is designed for process operators, plant technicians, and maintenance personnel who are responsible for operating vacuum tank filters in industries such as mining, chemical processing, water treatment, and food processing.
- It is also suitable for supervisors overseeing liquid solid separation operations.

COURSE OUTLINE

Day 1: Vacuum Tank Filter Operation for Liquid Solid Separation

- Introduction to liquid solid separation and vacuum filtration principles
- Components of a vacuum tank filter: tank, vacuum pump, filter media, discharge system
- Pre-start checks and startup procedures
- Monitoring and controlling vacuum pressure, feed rate, and cake thickness
- Shutdown procedures and cleaning protocols
- Routine maintenance: filter media inspection and replacement, pump checks
- Troubleshooting common problems: poor filtration, vacuum loss, cake discharge issues
- Safety considerations: lockout/tagout, PPE, handling of process materials

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
31 Jul 2026	31 Jul 2026	On-Campus	Mauritius
03 Aug 2026	03 Aug 2026	On-Campus	Dubai, UAE
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

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 110402) 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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