



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@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Safe Tanker Loading And Unloading For Dry Powder Materials Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110175 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the skills and knowledge to safely load and unload dry powder materials from tankers. It covers hazard identification, operational procedures, and emergency response to prevent incidents and ensure compliance with South African health and safety regulations.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110175
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

- Identify hazards and risks associated with dry powder tanker loading and unloading operations.
- Demonstrate correct procedures for connecting and disconnecting hoses and pipelines.
- Apply emergency response protocols in the event of spills, leaks, or other incidents.
- Evaluate the condition of equipment and personal protective equipment (PPE) before use.
- Implement safe work practices in accordance with relevant legislation and company policies.

WHO SHOULD ATTEND

- This course is designed for operators, drivers, and supervisors involved in the loading and unloading of dry powder tankers in industries such as mining, chemicals, and agriculture.

COURSE OUTLINE

Day 1: Foundations of Dry Powder Tanker Operations

- Introduction to dry powder materials: characteristics, dust explosion risks, and health hazards.
- Types of tankers: pneumatic, gravity, and pressure differential systems.
- Key components: manways, discharge valves, hoses, vents, and pressure relief devices.
- Regulatory framework: SANS 10228, SAQA unit standards, and OHS Act requirements.
- Safety fundamentals: PPE, lockout/tagout, emergency shutdown procedures.
- Static electricity and grounding: principles and bonding requirements.
- Environmental controls: dust containment, spill response, and waste management.

Day 2: Loading and Unloading Procedures

- Pre-loading inspection: tanker integrity, hose connections, grounding cables.
- Loading procedures: establishing bonding, opening vents, controlling fill rate.
- Unloading methods: gravity, pneumatic conveying, and pressure discharge.
- Monitoring and control: pressure gauges, flow indicators, level sensors.
- Alarm response: high-level, overpressure, and dust leak alarms.
- Emergency procedures: stop loading/unloading, isolate source, evacuate.
- Documentation: batch records, safety checklists, and incident reporting.

Day 3: Advanced Operations, Troubleshooting, and Assessment

- Troubleshooting: blocked lines, leaking seals, pressure fluctuations.
- Hazardous materials: reactive dusts (e.g., aluminum, zinc), toxic powders.
- Cleaning procedures: vacuuming, purging, and decontamination.
- Maintenance: hose inspection, valve servicing, pressure relief testing.
- Simulated operation: full-cycle loading and unloading scenario.
- Assessment preparation: practical test criteria and documentation.
- Review of key safety and regulatory compliance points.

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
05 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	12 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	14 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 110175) 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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