



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

Pipeline Depot Product Movement Start Up Procedures Training

Services / Transport, Operations and Logistics

Unit Standard 117703 · NQF Level 3 · 14 Credits · 11 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely and efficiently start up product movement operations at a pipeline depot. It covers pre-start checks, system activation procedures, and compliance with operational standards to ensure seamless product transfer and minimal downtime.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	117703
Accreditation	SAQA Accredited · NQF Level 3 · 14 Credits
Duration	11 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply pre-start-up inspection procedures to verify system readiness and safety compliance.
- Demonstrate correct activation sequences for pumps, valves, and control systems.
- Analyze operational parameters to identify and resolve startup anomalies.
- Evaluate emergency shutdown protocols and respond to startup-related incidents.
- Implement documentation procedures to record startup activities and deviations.

WHO SHOULD ATTEND

- Pipeline depot operators, shift supervisors, and maintenance technicians responsible for initiating product movement in fuel or liquid transport depots.

COURSE OUTLINE

Day 1: Introduction to Pipeline Depot Operations and Safety

- Overview of pipeline depot systems
- Safety legislation and compliance (OHS Act)
- Depot personnel roles and communication protocols
- Introduction to depot layout: tanks, pumps, valves, and pipelines
- Hazard identification and risk assessment basics
- Personal protective equipment (PPE) requirements

Day 2: Product Movement Fundamentals and Pipeline Hydraulics

- Fluid properties: density, viscosity, vapour pressure
- Pipeline hydraulics: pressure drop, flow regimes
- Product categories: crude, refined, LPG
- Impact of temperature on product behaviour
- Introduction to pump types and their applications
- Flow measurement devices and principles

Day 3: Depot Infrastructure and Equipment

- Tank farm layout: floating roof, fixed roof tanks
- Tank gauging and level measurement
- Valve types: gate, ball, check, pressure relief
- Pipeline pigging: purpose and procedures
- Pump systems: centrifugal, positive displacement
- Metering and proving systems

Day 4: Start-Up Procedures Preparation

- Pre-start-up documentation and permits
- Line-up verification: valve positions, block and bleed
- Isolation and lockout/tagout procedures
- Product interface detection and batch tracking
- Tank dipping and sampling procedures
- Communication protocols with control room

Day 5: Pump Start-Up and Operation

- Pump start-up sequence: priming, venting, valve operation
- Monitoring: pressure, flow, vibration, temperature
- Cavitation and deadhead conditions
- Pump performance curves and efficiency
- Routine pump maintenance checks
- Emergency pump shutdown procedures

Day 6: Valve Operations and Line Filling

- Valve operating procedures: slow opening/closing
- Line filling: controlled rate, venting, air removal
- Surge analysis and mitigation strategies
- Pressure regulation and relief systems
- Pig launching and receiving operations

- Leak detection and containment during filling

Day 7: Product Transfer and Batch Management

- Tank-to-tank and pipeline-to-tank transfers
- Batch scheduling and interface management
- Product sampling and quality testing
- Flow rate control and metering
- Data recording: volumes, pressures, temperatures
- Communication with downstream facilities

Day 8: Emergency Shutdown and Response Procedures

- Emergency shutdown (ESD) system overview
- Leak detection systems and response
- Fire suppression and containment procedures
- Equipment failure: pump, valve, pipeline rupture
- Evacuation and muster point protocols
- Incident reporting and debriefing

Day 9: Commissioning and Decommissioning Procedures

- Commissioning plan: pressure testing, flushing, drying
- Decommissioning: draining, purging, isolation
- Nitrogen purging and inerting procedures
- Hot tap and line stop operations
- Permit to work systems for modifications
- Handover documentation and records

Day 10: Practical Simulation and Scenario Training

- Simulated start-up exercises: pump, valve, line fill
- Scenario: interface handling and batch change
- Scenario: emergency shutdown and leak response
- Troubleshooting: pressure loss, flow deviation
- Team coordination and handover procedures
- Debrief and lessons learned

Day 11: Assessment, Review, and Certification

- Written assessment on procedures and safety
- Practical assessment: start-up sequence execution
- Oral questioning on troubleshooting
- Review of course content and Q&A;
- Individual feedback and improvement areas
- Issuance of certificates of competence

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 **14 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 38,400.00	R 38,400.00
1	In-House	R 49,900.00	R 49,900.00
1	On-Campus (Pretoria)	R 57,600.00	R 57,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
07 Aug 2026	21 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	26 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	26 Aug 2026	On-Campus	Mauritius
13 Aug 2026	27 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	28 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	31 Aug 2026	On-Campus	Abu Dhabi, 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 117703) 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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