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 Operations Training

Services / Transport, Operations and Logistics

Unit Standard 117702 · NQF Level 3 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the competencies required to oversee and execute product movement operations within a pipeline depot. It focuses on the safe, efficient, and compliant handling of petroleum and related products, including receipt, storage, and dispatch processes.

Category	Services
Subfield	Transport, Operations and Logistics
Unit Standard	117702
Accreditation	SAQA Accredited · NQF Level 3 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply standard operating procedures for receiving, storing, and dispatching products at a pipeline depot.
- Demonstrate the ability to monitor and control product movement to ensure accurate inventory management.
- Evaluate and respond to operational deviations, including leaks, spills, or equipment malfunctions.
- Implement safety and environmental protocols in accordance with relevant legislation and company policies.
- Analyze product movement data to optimize depot operations and minimize losses.

WHO SHOULD ATTEND

- This course is designed for operators, supervisors, and team leaders working in pipeline depots or similar product handling facilities who are responsible for day-to-day product movement operations.

COURSE OUTLINE

Day 1: Introduction to Pipeline Depot Operations and Safety

- Overview of the South African petroleum industry and pipeline network
- Depot functions: receipt, storage, dispatch, and transfer
- Safety culture: HSE policies, risk assessment, and emergency procedures
- Depot infrastructure: tanks, pumps, pipelines, valves, and metering systems
- Introduction to product types and their properties
- Course outcomes and assessment criteria

Day 2: Pipeline Depot Equipment and Systems

- Pump types: centrifugal, positive displacement, and their applications
- Valve types: gate, globe, ball, check, and control valves
- Storage tanks: fixed roof, floating roof, and pressurized
- Metering systems: flow meters, provers, and calibration
- Pipeline pigging and cleaning operations
- Equipment inspection and preventive maintenance

Day 3: Product Receipt and Dispatch Procedures

- Receipt procedures: line flushing, tank selection, and valve sequencing
- Dispatch procedures: loading rack operations, truck loading, and vapor recovery
- Sampling methods and laboratory testing requirements
- Documentation: bills of lading, transfer tickets, and product quality certificates
- Safety protocols: earthing, bonding, and spill prevention
- Communication between control room and field operators

Day 4: Tank Farm Operations and Inventory Management

- Tank farm design: dikes, sumps, and fire protection
- Tank gauging methods: manual and automatic tank gauging (ATG
- Volume calculations: temperature correction and density
- Inventory management: stock reconciliation and loss control
- Product blending: in-line and in-tank blending
- Tank transfer procedures: line flushing and product segregation

Day 5: Pipeline Operations and Product Movement Control

- Pipeline hydraulics: pressure, flow, and friction loss
- Batch operations: product sequencing and interface handling
- Interface detection: methods and cut points
- SCADA systems: monitoring and control
- Alarm management: high/low pressure, leak detection
- Communication protocols with pipeline controllers

Day 6: Quality Assurance and Product Sampling

- Quality standards: SANS, ASTM, and IP methods
- Sampling equipment: sample thieves, automatic samplers
- Sampling procedures: tank, pipeline, and truck loading
- Laboratory tests: density, vapor pressure, distillation, and octane
- Contamination: water, sediment, and cross-product contamination

- Record keeping and quality documentation

Day 7: Environmental Management and Spill Response

- Environmental legislation: NEMA, water, and air quality acts
- Spill prevention: secondary containment, drip trays, and inspections
- Spill response: containment, recovery, and cleanup
- Waste management: oil, water, and solid waste disposal
- Environmental monitoring: groundwater and air quality
- Incident reporting and documentation

Day 8: Fire Safety and Emergency Preparedness

- Fire triangle and classes of fire
- Fire detection systems: heat, smoke, and flame detectors
- Fixed fire suppression: foam systems, deluge, and monitors
- Portable fire extinguishers: types and use
- Emergency shutdown (ESD) systems
- Emergency response plans: evacuation, muster points, and communication

Day 9: Maintenance and Integrity Management

- Preventive maintenance schedules and checklists
- Corrosion control: coatings, inhibitors, and cathodic protection
- Tank inspection: API 653 and internal inspections
- Pipeline integrity: in-line inspection and hydrotesting
- Work permits: hot work, confined space, and excavation permits
- Lockout/tagout and isolation procedures

Day 10: Advanced Operations and Optimization

- Loss control: evaporation, metering errors, and theft prevention
- Energy efficiency: pump scheduling and power management
- Data analysis: trend monitoring and reporting
- Blending optimization: recipe management and inline blending
- KPIs: throughput, turnaround time, and product loss
- Continuous improvement methodologies

Day 11: Regulatory Compliance and Auditing

- Regulatory bodies: SAQA, DMR, DEA, and SABS
- Compliance requirements: OHS Act, SANS 10019, and ISO standards
- Audit types: internal, external, and regulatory
- Audit preparation: document review and site inspection
- Non-conformance management and corrective actions
- Record keeping: training, maintenance, and incident logs

Day 12: Integration, Assessment, and Certification

- Integrated scenario: plan and execute a product receipt and dispatch
- Practical assessment: equipment operation and safety checks
- Written assessment: knowledge test covering all days
- Feedback and review of assessment results
- Certification process and next steps
- Course evaluation and closing

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 **15 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 30,100.00	**R 30,100.00**
1	In-House	R 40,600.00	**R 40,600.00**
1	On-Campus (Pretoria)	R 45,200.00	**R 45,200.00**

UPCOMING SESSIONS

Start	End	Method	Venue
02 Dec 2026	17 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
02 Dec 2026	17 Dec 2026	On-Campus	Kinshasa, DRC
03 Dec 2026	18 Dec 2026	On-Campus	Pretoria, South Africa
04 Dec 2026	21 Dec 2026	On-Campus	Dar es Salaam, Tanzania
07 Dec 2026	22 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
07 Dec 2026	22 Dec 2026	On-Campus	Blantyre, Malawi
08 Dec 2026	23 Dec 2026	On-Campus	Kinshasa, DRC
09 Dec 2026	24 Dec 2026	On-Campus	Bangkok, Thailand

Contact us if no suitable date is listed — on-demand sessions can be arranged for groups.

HOW TO GET A QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 117702) and click **Get A Quotation**. 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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