



## 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

# Product Metering Procedures And Techniques Training

Services / Transport, Operations and Logistics

Unit Standard 117771 · NQF Level 3 · 6 Credits · 3 Days

## COURSE OVERVIEW

This course equips learners with the knowledge and skills to implement product metering procedures and techniques in accordance with industry standards. Participants will learn to accurately measure, record, and manage product quantities, ensuring compliance with regulatory requirements and operational efficiency.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Services                                  |
| Subfield        | Transport, Operations and Logistics       |
| Unit Standard   | 117771                                    |
| Accreditation   | SAQA Accredited · NQF Level 3 · 6 Credits |
| Duration        | 3 days                                    |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Apply product metering procedures to ensure accurate measurement of liquid and dry products.
- Analyze metering data to identify discrepancies and implement corrective actions.
- Evaluate metering equipment performance and calibrate instruments according to specifications.
- Design metering records and reports to comply with organizational and regulatory standards.
- Implement safety protocols during metering operations to prevent product loss and environmental harm.
- Demonstrate proficiency in using metering tools and interpreting measurement units.

## WHO SHOULD ATTEND

- This course is designed for technicians, supervisors, and quality assurance personnel involved in product measurement and metering within manufacturing, warehousing, or distribution environments.

## COURSE OUTLINE

### Day 1: Foundations of Product Metering

- Introduction to product metering: definitions and objectives
- Types of meters: positive displacement, turbine, Coriolis, ultrasonic, and orifice meters
- Custody transfer vs. allocation metering
- Overview of SAQA unit standard 117771 and related regulations
- Basic metering principles: flow, pressure, temperature, density
- Safety considerations in metering operations

### Day 2: Metering Procedures and Techniques

- Meter installation best practices: upstream/downstream piping requirements
- Meter proving methods: master meter, pipe prover, and compact prover
- Calibration procedures and frequency
- Flow computer configuration and data handling
- Common faults: cavitation, over-ranging, and wear
- Practical exercises: meter reading and data recording

### Day 3: Advanced Applications and Integration

- Uncertainty analysis and measurement error sources
- Metering for multi-phase flow and non-Newtonian fluids
- SCADA integration and remote monitoring
- Case studies: custody transfer disputes and resolution
- Advanced troubleshooting: pulsation, two-phase flow, and erosion
- Continuous improvement and auditing of metering systems

## 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 3**.

## 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                      |
|-------------|-------------|-----------|----------------------------|
| 04 Aug 2026 | 06 Aug 2026 | On-Campus | Dubai, UAE                 |
| 04 Aug 2026 | 06 Aug 2026 | On-Campus | Johannesburg, South Africa |
| 05 Aug 2026 | 07 Aug 2026 | On-Campus | Pretoria, South Africa     |
| 05 Aug 2026 | 07 Aug 2026 | On-Campus | Mauritius                  |
| 10 Aug 2026 | 12 Aug 2026 | On-Campus | Durban, South Africa       |
| 10 Aug 2026 | 12 Aug 2026 | On-Campus | Dubai, UAE                 |
| 11 Aug 2026 | 13 Aug 2026 | On-Campus | Pretoria, South Africa     |
| 11 Aug 2026 | 13 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 117771) 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](mailto: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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