



## 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

# Steam System Fault Diagnosis And Testing Procedures Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 116326 · NQF Level 4 · 3 Credits · 1 Day

## COURSE OVERVIEW

This course equips learners with the skills to diagnose and test faults in steam systems, ensuring operational efficiency and safety. Participants will learn systematic troubleshooting procedures and apply industry best practices to minimize downtime and maintenance costs.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Manufacturing, Engineering and Technology |
| Subfield        | Manufacturing and Assembly                |
| Unit Standard   | 116326                                    |
| Accreditation   | SAQA Accredited · NQF Level 4 · 3 Credits |
| Duration        | 1 day                                     |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Apply systematic fault diagnosis procedures to identify common steam system failures.
- Analyze steam system performance data to detect anomalies and inefficiencies.
- Evaluate testing methods for steam traps, pressure controls, and condensate return systems.
- Demonstrate safe testing procedures in accordance with industry standards.
- Implement corrective actions based on diagnosis results to restore system functionality.
- Design a routine inspection and testing schedule for steam system components.

## WHO SHOULD ATTEND

- This course is designed for maintenance technicians, plant engineers, and operations supervisors responsible for steam system performance and reliability in industrial or commercial settings.

## COURSE OUTLINE

### Day 1: Steam System Fault Diagnosis and Testing Procedures

- Overview of steam system components and typical fault modes.
- Fault diagnosis methodology: observation, measurement, and analysis.
- Testing procedures: pressure, temperature, flow, and steam quality tests.
- Use of diagnostic tools: thermography, ultrasonic detectors, and pressure gauges.
- Safety considerations when testing high-pressure steam systems.
- Case studies: diagnosing steam traps, leaks, and pressure control issues.
- Reporting and documentation of test results and corrective actions.

## 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 **3 NQF credits** at **NQF Level 4**.

## 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                      |
|-------------|-------------|-----------|----------------------------|
| 07 Aug 2026 | 07 Aug 2026 | On-Campus | Johannesburg, South Africa |
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Cape Town, South Africa    |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Dubai, UAE                 |
| 12 Aug 2026 | 12 Aug 2026 | On-Campus | Pretoria, South Africa     |
| 13 Aug 2026 | 13 Aug 2026 | On-Campus | Abu Dhabi, UAE             |
| 14 Aug 2026 | 14 Aug 2026 | On-Campus | Durban, South Africa       |
| 14 Aug 2026 | 14 Aug 2026 | On-Campus | Mauritius                  |
| 17 Aug 2026 | 17 Aug 2026 | On-Campus | Dubai, 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 116326) 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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