



## 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

# Temperature Calibration Measurements Knowledge

Law, Military Science and Security / Safety in Society

Unit Standard 242716 · NQF Level 5 · 3 Credits · 1 Day

## COURSE OVERVIEW

This course equips learners with the fundamental knowledge and skills required to perform temperature calibration measurements accurately and reliably. It covers the principles of temperature measurement, calibration standards, and practical techniques for verifying and adjusting temperature instruments. The course is designed to ensure that learners can apply calibration procedures in accordance with industry requirements and quality management systems.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Law, Military Science and Security        |
| Subfield        | Safety in Society                         |
| Unit Standard   | 242716                                    |
| Accreditation   | SAQA Accredited · NQF Level 5 · 3 Credits |
| Duration        | 1 day                                     |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Explain the fundamental principles of temperature measurement and the types of temperature sensors.
- Apply calibration procedures for temperature instruments using appropriate reference standards.
- Analyze calibration results to determine instrument accuracy and conformance to specifications.
- Demonstrate proper documentation and record-keeping of calibration activities.
- Evaluate the influence of environmental factors on temperature measurements and calibrations.
- Implement corrective actions based on calibration findings to ensure measurement traceability.

## WHO SHOULD ATTEND

- This course is intended for technicians, engineers, and quality assurance personnel who are involved in the calibration and maintenance of temperature measurement instruments in industrial, laboratory, or field environments.

## COURSE OUTLINE

### Day 1: Fundamentals of Temperature Calibration

- Introduction to temperature measurement: units, scales, and definitions
- Temperature sensors: thermocouples, RTDs, thermistors, and liquid-in-glass thermometers
- Calibration principles: traceability, standards, and uncertainty
- Calibration equipment: dry-block calibrators, liquid baths, and reference thermometers
- Calibration procedures: comparison method and fixed-point calibration
- Documentation: calibration certificates, records, and labels
- Safety considerations in temperature calibration

## 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 5**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 13,400.00        | R 13,400.00 |
| 1         | In-House             | R 17,400.00        | R 17,400.00 |
| 1         | On-Campus (Pretoria) | R 20,200.00        | R 20,200.00 |

## UPCOMING SESSIONS

| Start       | End         | Method    | Venue                   |
|-------------|-------------|-----------|-------------------------|
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Pretoria, South Africa  |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Abu Dhabi, UAE          |
| 12 Aug 2026 | 12 Aug 2026 | On-Campus | Durban, South Africa    |
| 12 Aug 2026 | 12 Aug 2026 | On-Campus | Mauritius               |
| 13 Aug 2026 | 13 Aug 2026 | On-Campus | Cape Town, South Africa |
| 14 Aug 2026 | 14 Aug 2026 | On-Campus | Dubai, UAE              |
| 17 Aug 2026 | 17 Aug 2026 | On-Campus | Abu Dhabi, UAE          |
| 18 Aug 2026 | 18 Aug 2026 | On-Campus | Durban, South Africa    |

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 242716) 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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