



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

Plant Maintenance

Custom Courses / Engineering & Technical Maintenance

Unit Standard AATICD-0218 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the fundamental principles and practices of plant maintenance, focusing on proactive and reactive strategies to ensure equipment reliability and operational efficiency. It covers maintenance planning, scheduling, and execution within industrial environments, aligned with South African standards and best practices.

Category	Custom Courses
Subfield	Engineering & Technical Maintenance
Unit Standard	AATICD-0218
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply maintenance strategies such as preventive, predictive, and corrective maintenance to plant equipment.
- Analyze plant equipment performance data to identify maintenance needs and improve reliability.
- Implement maintenance schedules and work orders using industry-standard procedures.
- Demonstrate safe work practices and compliance with health and safety regulations during maintenance activities.
- Evaluate the effectiveness of maintenance programs and recommend improvements.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, plant supervisors, and operations staff responsible for the upkeep and reliability of plant equipment in manufacturing, mining, or industrial settings.

COURSE OUTLINE

Day 1: Introduction to Plant Maintenance Principles

- Overview of plant maintenance and its impact on production
- Types of maintenance: reactive, preventive, predictive, proactive
- Introduction to maintenance planning and scheduling
- Basic maintenance metrics: MTBF, MTTR, availability
- Safety considerations in maintenance activities

Day 2: Maintenance Planning and Scheduling

- Work order systems and documentation
- Criticality analysis and prioritisation
- Scheduling methods: daily, weekly, shutdown planning
- Spare parts management and inventory control
- Introduction to Computerised Maintenance Management Systems (CMMS)

Day 3: Preventive and Predictive Maintenance Techniques

- Preventive maintenance tasks and frequencies
- Predictive maintenance: vibration analysis, thermography, oil analysis
- Visual and dimensional inspection techniques
- Lubrication and cleanliness standards
- Data collection and trend analysis

Day 4: Troubleshooting and Corrective Maintenance

- Troubleshooting methodologies (e.g., 5-Why, fishbone diagram)
- Root cause failure analysis (RCFA)
- Corrective maintenance: repair vs replace decisions
- Safety lockout/tagout (LOTO) procedures
- Maintenance reporting and continuous improvement

Day 5: Maintenance Optimisation and Practical Integration

- Total Productive Maintenance (TPM) principles
- Reliability Centred Maintenance (RCM) overview
- Key performance indicators and benchmarking
- Case studies in maintenance optimisation
- Course review and assessment preparation

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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 AATICD-0218) 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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