



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

Preventive Maintenance

Custom Courses / Engineering & Technical Maintenance

Unit Standard AATICD-0216 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills to implement effective preventive maintenance strategies in industrial and commercial environments. Learners will understand the principles of preventive maintenance, including planning, scheduling, and monitoring, to reduce equipment downtime and extend asset life. The course emphasizes compliance with South African health and safety regulations and organizational policies.

Category	Custom Courses
Subfield	Engineering & Technical Maintenance
Unit Standard	AATICD-0216
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 preventive maintenance principles to develop a maintenance schedule for selected equipment.
- Analyze equipment failure data to identify trends and prioritize maintenance activities.
- Evaluate the effectiveness of a preventive maintenance program using key performance indicators.
- Design a preventive maintenance plan that incorporates safety, regulatory, and operational requirements.
- Implement maintenance procedures in accordance with organizational policies and relevant South African legislation.
- Demonstrate the use of maintenance documentation and record-keeping systems.

WHO SHOULD ATTEND

- This course is designed for maintenance supervisors, technicians, and operations managers responsible for equipment reliability and maintenance planning.
- It is also suitable for anyone seeking to improve their understanding of preventive maintenance practices in a corporate or industrial setting.

COURSE OUTLINE

Day 1: Introduction to Preventive Maintenance Principles

- Overview of maintenance strategies: reactive, preventive, predictive, proactive
- Fundamental principles of preventive maintenance
- Benefits: cost savings, safety, equipment longevity
- Introduction to maintenance planning and scheduling
- Basic terminology: MTBF, MTTR, uptime, downtime
- Regulatory and safety considerations in maintenance

Day 2: Maintenance Planning and Scheduling

- Creating a preventive maintenance plan
- Work order systems: components and flow
- Criticality analysis and prioritisation
- Resource planning: labour, tools, parts
- Spare parts management and inventory control
- Introduction to Computerised Maintenance Management Systems (CMMS)

Day 3: Inspection Techniques and Condition Monitoring

- Visual inspection methods and checklists
- Introduction to condition monitoring: vibration, temperature, lubrication, alignment
- Wear and failure modes: corrosion, fatigue, erosion
- Non-destructive testing (NDT) basics
- Recording and reporting inspection data
- Hands-on inspection demonstration

Day 4: Lubrication and Mechanical Maintenance

- Lubrication fundamentals: types, properties, storage
- Lubrication schedules and methods (oil, grease)
- Bearing types, installation, and maintenance
- Belt and chain drives: inspection and tensioning
- Coupling alignment basics
- Mechanical seal and packing maintenance

Day 5: Electrical Maintenance and Programme Integration

- Electrical maintenance: motor, switchgear, cable inspection
- Thermal imaging basics for electrical systems
- Safety: lockout/tagout, arc flash, PPE
- Key performance indicators (KPIs) for maintenance
- Continuous improvement: root cause analysis, feedback loops
- Final assessment and course wrap-up

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-0216) 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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