



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

Advanced Maintenance Management

Custom Courses / Engineering and Instrumentation

Unit Standard AATICD-0030 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This advanced course equips maintenance managers and supervisors with strategic skills to optimise asset reliability, reduce downtime, and align maintenance operations with organisational objectives. Participants will learn to implement world-class maintenance strategies, manage teams effectively, and drive continuous improvement in maintenance performance.

Category	Custom Courses
Subfield	Engineering and Instrumentation
Unit Standard	AATICD-0030
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

- Analyse the principles of reliability-centred maintenance (RCM) and total productive maintenance (TPM) to select appropriate strategies for different asset types.
- Design a comprehensive maintenance plan that integrates preventive, predictive, and corrective maintenance with resource allocation and budgeting.
- Evaluate maintenance performance using key performance indicators (KPIs) such as OEE, MTBF, and MTTR, and recommend improvement actions.
- Implement a computerised maintenance management system (CMMS) to streamline work orders, inventory, and reporting.
- Apply root cause analysis (RCA) and failure mode and effects analysis (FMEA) to systematically resolve recurring failures.
- Demonstrate leadership in maintenance teams by fostering a safety culture, managing change, and facilitating continuous improvement initiatives.

WHO SHOULD ATTEND

- Maintenance managers, engineers, supervisors, and technical professionals responsible for planning, managing, or improving maintenance operations in industrial or commercial environments.

COURSE OUTLINE

Day 1: Foundations of Maintenance Management

- Introduction to maintenance management principles
- Types of maintenance strategies (reactive, preventive, predictive, proactive)
- Maintenance KPIs: OEE, MTBF, MTTR, availability
- Asset lifecycle and maintenance planning
- Cost-benefit analysis of maintenance approaches
- Overview of maintenance standards (e.g., ISO 55000)

Day 2: Reliability-Centred Maintenance (RCM) and Failure Analysis

- Principles of Reliability-Centred Maintenance (RCM)
- Failure Mode and Effects Analysis (FMEA)
- Root Cause Analysis (RCA) techniques
- Weibull analysis for failure data
- Maintenance task selection and prioritisation
- Case studies in RCM implementation

Day 3: Maintenance Planning and Scheduling

- Maintenance planning process: scope, resources, timing
- Scheduling techniques: Gantt charts, critical path method
- CMMS functionality and data management
- Work order lifecycle: creation, assignment, closure
- Spare parts management and inventory optimisation
- Contractor management in maintenance

Day 4: Condition-Based Maintenance and Predictive Technologies

- Introduction to condition-based maintenance (CBM)
- Vibration analysis: sensors, data collection, interpretation
- Thermography: infrared inspections and reporting
- Oil analysis and lubrication management
- Ultrasonic and other NDT methods
- Implementing a CBM programme: sensors, thresholds, alarms

Day 5: Maintenance Strategy Optimisation and Continuous Improvement

- Total Productive Maintenance (TPM): pillars and implementation
- Lean maintenance: 5S, Kaizen, value stream mapping
- Maintenance audits and benchmarking
- Life cycle cost analysis (LCCA)
- Change management for maintenance transformation
- Developing a maintenance improvement roadmap

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
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
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

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-0030) 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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