



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

Equipment Failure Analysis and Prevention

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 335898 · NQF Level 5 · 12 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with the skills to coordinate predictive and preventative maintenance (PPM) programmes in an industrial or manufacturing environment. Participants will learn to plan, schedule, and oversee maintenance activities to minimise downtime and extend asset life. The focus is on applying systematic approaches to improve equipment reliability and operational efficiency.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	335898
Accreditation	SAQA Accredited · NQF Level 5 · 12 Credits
Duration	4 days
Training Method	On-Campus
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of predictive and preventative maintenance to develop a coordinated maintenance plan.
- Analyse equipment failure data to identify trends and prioritise maintenance tasks.
- Implement a PPM schedule that optimises resource allocation and minimises production disruptions.
- Evaluate the effectiveness of PPM programmes using key performance indicators.
- Demonstrate the ability to communicate maintenance plans and coordinate with relevant stakeholders.

WHO SHOULD ATTEND

- This course is designed for maintenance supervisors, team leaders, and technicians who are responsible for coordinating maintenance activities.
- It is also suitable for engineers and operations managers seeking to enhance their understanding of PPM coordination.

COURSE OUTLINE

Day 1: Foundations of Maintenance Management

- Introduction to maintenance management and its strategic role.
- Types of maintenance: reactive, preventative, predictive, and proactive.
- Key concepts: reliability, availability, maintainability, and safety (RAMS).
- Overview of maintenance planning and scheduling.
- Maintenance metrics: MTBF, MTTR, OEE.
- Case studies: benefits of preventative vs. predictive maintenance.
- Introduction to relevant standards (e.g., ISO 55000).

Day 2: Preventative Maintenance Planning and Scheduling

- Equipment criticality ranking and risk-based prioritisation.
- Time-based vs. condition-based PM triggers.
- Developing PM task lists and checklists.
- Work order generation, assignment, and closure.
- Spare parts management and inventory optimisation.
- Scheduling techniques: fixed interval, floating, and calendar-based.
- Introduction to CMMS (Computerised Maintenance Management System).

Day 3: Predictive Maintenance Techniques and Condition Monitoring

- Overview of predictive maintenance technologies.
- Vibration analysis: sensors, data collection, and interpretation.
- Thermography: thermal imaging for electrical and mechanical faults.
- Oil analysis: lubricant condition and wear debris analysis.
- Ultrasonic testing: leak detection and bearing condition.
- Data trending and alarm set points.
- Combining PdM with PM for optimal maintenance strategy.

Day 4: Implementation, Coordination, and Continuous Improvement

- Building a master maintenance schedule.
- Coordination between maintenance, operations, and procurement.
- Root cause analysis (RCA) and failure mode and effects analysis (FMEA).
- Continuous improvement: PDCA cycle, Kaizen events.
- Maintenance audits and performance reviews.
- Change management for maintenance program implementation.
- 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 **12 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 21,500.00	R 21,500.00
1	In-House	R 27,900.00	R 27,900.00
1	On-Campus (Pretoria)	R 32,300.00	R 32,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
31 Jul 2026	12 Aug 2026	On-Campus	Mauritius
03 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	17 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	18 Aug 2026	On-Campus	Mauritius
07 Aug 2026	19 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	20 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	21 Aug 2026	On-Campus	Abu Dhabi, 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, open the page for this course (Unit Standard 335898) 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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