Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
Tel: +27 12 004 8389 · Mobile: +27 65 077 6310
Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Pump Maintenance

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0434 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips maintenance personnel with the knowledge and skills required to perform effective pump maintenance, ensuring operational efficiency and safety. Participants will learn to identify pump types, diagnose common faults, and apply maintenance procedures that comply with industry standards and safety regulations.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0434
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply principles of pump operation and maintenance to ensure optimal performance and longevity.
- Analyze pump system components and diagnose common faults to determine appropriate corrective actions.
- Evaluate maintenance procedures and safety protocols to ensure compliance with legislative and organizational requirements.
- Implement a preventive maintenance schedule for pumps to minimize downtime and extend equipment life.
- Demonstrate the correct use of tools and equipment in pump maintenance, including alignment and balancing techniques.
- Design a basic pump maintenance checklist tailored to specific pump types and operational contexts.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, mechanical fitters, and plant operators who are responsible for the upkeep and repair of pumping systems in industrial, municipal, or commercial environments.

COURSE OUTLINE

Day 1: **Fundamentals of Pump Systems and Maintenance Principles**

- Introduction to pump systems: types, components, and applications.
- Pump performance curves and system characteristics.
- Maintenance strategies: preventive, predictive, and corrective.
- Common pump failures: cavitation, wear, leakage, and vibration.
- Safety practices and personal protective equipment (PPE).
- Tools and equipment for pump maintenance.
- Documentation and record-keeping.

Day 2: **Advanced Maintenance Techniques and Troubleshooting**

- Condition monitoring techniques: vibration analysis, thermography, and oil analysis.
- Disassembly and reassembly procedures for centrifugal and positive displacement pumps.
- Seal and bearing maintenance: types, replacement, and installation.
- Pump alignment methods: dial indicator and laser alignment.
- Troubleshooting methodology: systematic problem-solving.
- Maintenance planning and scheduling.
- Case studies and real-world scenarios.

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 **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	**R 11,900.00**
1	In-House	R 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Dubai, UAE
02 Dec 2026	03 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
02 Dec 2026	03 Dec 2026	On-Campus	Cape Town, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Shenzhen, China
03 Dec 2026	04 Dec 2026	On-Campus	Lagos, Nigeria
09 Dec 2026	10 Dec 2026	On-Campus	Maseru, Lesotho
09 Dec 2026	10 Dec 2026	On-Campus	Kigali, Rwanda
09 Dec 2026	10 Dec 2026	On-Campus	Accra, Ghana

Contact us if no suitable date is listed — on-demand sessions can be arranged for groups.

HOW TO GET A QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0434) and click **Get A Quotation**. 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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