



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

Compressor Maintenance

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0435 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips maintenance personnel with the knowledge and skills to perform compressor maintenance safely and effectively. It covers the principles of compressor operation, routine maintenance procedures, fault diagnosis, and safety protocols, ensuring optimal performance and longevity of equipment.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0435
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 safety regulations and procedures when performing compressor maintenance tasks.
- Analyze compressor performance data to identify potential faults and maintenance needs.
- Evaluate the condition of compressor components and determine appropriate maintenance actions.
- Demonstrate the correct procedures for routine compressor maintenance, including lubrication, filter replacement, and belt tensioning.
- Implement a systematic approach to diagnosing and rectifying common compressor faults.
- Design a maintenance schedule for a compressor system based on manufacturer specifications and operational requirements.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, mechanical fitters, and plant operators who are responsible for the upkeep of compressors in industrial or commercial settings.

COURSE OUTLINE

Day 1: Compressor Fundamentals and Maintenance Principles

- Introduction to compressors: types (reciprocating, rotary, centrifugal) and applications
- Compressor system components: cylinders, valves, pistons, seals, bearings, lubrication systems
- Operating principles: thermodynamics, compression cycles, and efficiency
- Maintenance planning: preventive, predictive, and corrective strategies
- Safety in compressor maintenance: lockout/tagout, pressure isolation, and PPE
- Tools and equipment for compressor maintenance
- Documentation and record-keeping: maintenance logs and checklists
- Workshop safety and housekeeping practices

Day 2: Advanced Maintenance Techniques and Troubleshooting

- Advanced inspection techniques: wear analysis, clearance checks, and vibration analysis
- Overhaul procedures for valves, pistons, and cylinders
- Bearing maintenance: types, fitting, and alignment
- Lubrication systems: oil types, contamination control, and oil analysis
- Performance testing: flow, pressure, and power measurements
- Troubleshooting common faults: abnormal noise, overheating, leakage, and capacity loss
- Repair and reassembly procedures: tolerances, torque, and sealing
- Commissioning and handover after maintenance

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 15,400.00	R 15,400.00
1	On-Campus (Pretoria)	R 17,800.00	R 17,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
01 Oct 2026	02 Oct 2026	On-Campus	Maseru, Lesotho
01 Oct 2026	02 Oct 2026	On-Campus	Victoria Falls, Zimbabwe
05 Oct 2026	06 Oct 2026	On-Campus	Mbabane, Eswatini
05 Oct 2026	06 Oct 2026	On-Campus	Lusaka, Zambia
06 Oct 2026	07 Oct 2026	On-Campus	Nairobi, Kenya
06 Oct 2026	07 Oct 2026	On-Campus	Bangkok, Thailand
07 Oct 2026	08 Oct 2026	On-Campus	Windhoek, Namibia
08 Oct 2026	09 Oct 2026	On-Campus	Kigali, Rwanda

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-0435) 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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