



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

Maintenance of oil equipment

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0276 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to perform routine maintenance on oil equipment used in industrial settings. Participants will learn to inspect, clean, and service equipment such as pumps, filters, and lubrication systems to ensure optimal performance and safety.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0276
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

- Identify and describe the key components of oil equipment and their functions.
- Apply standard operating procedures for inspecting and maintaining oil equipment.
- Demonstrate correct techniques for cleaning, lubricating, and replacing oil filters and seals.
- Analyze common faults in oil equipment and implement corrective actions.
- Evaluate equipment performance and record maintenance activities accurately.
- Implement safety protocols when handling oil and operating maintenance tools.

WHO SHOULD ATTEND

- Maintenance technicians, plant operators, and engineering staff responsible for the upkeep of oil-handling equipment in manufacturing, mining, or energy sectors.

COURSE OUTLINE

Day 1: Introduction to Oil Equipment and Safety Fundamentals

- Overview of oil equipment: pumps, valves, compressors, pipelines.
- Safety regulations: OHS Act, SANS codes.
- Personal protective equipment (PPE) and safe work practices.
- Introduction to maintenance types: preventive, predictive, corrective.
- Equipment documentation and logbooks.
- Hazard identification and risk assessment.

Day 2: Inspection and Diagnostic Techniques

- Visual inspection techniques for oil equipment.
- Non-destructive testing (NDT): ultrasonic, magnetic particle, dye penetrant.
- Vibration analysis and thermography.
- Oil analysis: sampling, viscosity, contamination.
- Troubleshooting common issues: leaks, overheating, abnormal noise.
- Documentation and reporting standards.

Day 3: Preventive Maintenance Procedures

- Preventive maintenance schedules and checklists.
- Lubrication methods: grease, oil, automatic systems.
- Filter replacement and cleaning.
- Seal and gasket replacement.
- Calibration of pressure gauges and flow meters.
- Torque tightening and fastener maintenance.
- Housekeeping and workspace organization.

Day 4: Corrective Maintenance and Repair Techniques

- Common failure modes: corrosion, erosion, fatigue.
- Pump repair: impeller, casing, mechanical seals.
- Valve maintenance: seat, stem, packing.
- Pipeline repair: clamps, welding, composite wraps.
- Electrical motor troubleshooting.
- Post-repair testing: pressure test, run-in.
- Spare parts management and inventory.

Day 5: Maintenance Planning, Record Keeping, and Integration

- Maintenance planning: scheduling, resource allocation.
- Introduction to CMMS software.
- Root cause analysis (RCA) techniques.
- Lockout/tagout (LOTO) procedures.
- Equipment shutdown and startup sequences.
- Environmental compliance and spill response.
- Final assessment and course review.

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
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	Victoria Falls, Zimbabwe
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK
07 Sep 2026	11 Sep 2026	On-Campus	Mauritius
07 Sep 2026	11 Sep 2026	On-Campus	Pretoria, South Africa

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-0276) 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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