



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

Production Machine Maintenance Lubrication And Minor Repairs Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110300 · NQF Level 2 · 9 Credits · 6 Days

COURSE OVERVIEW

This course equips production machine operators and maintenance personnel with the knowledge and skills to perform routine lubrication, basic maintenance, and minor repairs on production machinery. Participants will learn to identify common faults, apply correct lubrication techniques, and carry out safe minor repairs to minimise downtime and extend equipment life.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110300
Accreditation	SAQA Accredited · NQF Level 2 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply correct lubrication procedures to production machinery according to manufacturer specifications.
- Identify and diagnose common mechanical faults in production equipment using visual and auditory inspection.
- Perform minor repairs and adjustments on machinery safely and effectively.
- Implement preventive maintenance schedules to reduce unplanned downtime.
- Demonstrate safe work practices, including lock-out/tag-out and use of personal protective equipment.
- Evaluate maintenance records and recommend improvements to the maintenance plan.

WHO SHOULD ATTEND

- Machine operators, production line workers, and maintenance technicians who are responsible for the day-to-day care and minor upkeep of production equipment.

COURSE OUTLINE

Day 1: Introduction to Machine Maintenance and Lubrication

- Overview of production machine maintenance
- Key machine components: bearings, gears, chains, seals
- Fundamentals of lubrication: friction, wear, and lubrication mechanisms
- Types of lubricants: oils, greases, solid lubricants
- Lubricant properties: viscosity, additives, and compatibility
- Safety in maintenance: lockout/tagout, PPE, and safe handling of lubricants

Day 2: Lubrication Systems and Procedures

- Manual lubrication methods: grease guns, oil cans, brush application
- Automatic lubrication systems: centralized, single-point, multi-point
- Lubrication points: bearings, gears, chains, slides, seals
- Lubricant selection criteria: viscosity grade, operating conditions, OEM recommendations
- Lubrication schedules: frequency, quantity, and documentation
- Common lubrication problems: contamination, mixing, degradation

Day 3: Machine Inspection and Condition Monitoring

- Visual inspection: wear patterns, leaks, misalignment, corrosion
- Temperature monitoring: thermometers, infrared thermography basics
- Vibration analysis basics: handheld vibration meters, interpreting readings
- Noise and sound analysis: abnormal sounds and their causes
- Lubricant analysis: sampling, visual checks, contamination detection
- Preventive maintenance schedules and checklists

Day 4: Minor Repairs: Fasteners, Seals, and Bearings

- Types of fasteners: bolts, nuts, screws, washers, and torque requirements
- Seal types: static and dynamic seals, gaskets, O-rings, lip seals
- Bearing types: ball, roller, plain, and mounting/dismounting procedures
- Bearing adjustment: preload, clearance, and alignment
- Repair procedures: step-by-step replacement of seals and bearings
- Safety during repairs: isolation, tool handling, and workspace organization

Day 5: Minor Repairs: Belts, Chains, and Couplings

- Belt drives: types (V-belts, timing belts), tensioning, alignment, replacement
- Chain drives: types (roller, leaf), lubrication, tension adjustment, replacement
- Couplings: rigid, flexible, and their applications; inspection and replacement
- Shaft alignment basics: straight edge, feeler gauge, laser alignment intro
- Minor electrical repairs: replacing fuses, switches, terminals, and connectors
- Troubleshooting common drive system issues: noise, vibration, slippage

Day 6: Integration, Troubleshooting, and Best Practices

- Integrated maintenance planning: combining lubrication, inspection, and repairs
- Troubleshooting methodology: identify symptoms, root cause analysis, corrective actions
- Case studies: common production machine failures and solutions
- Best practices: cleanliness, documentation, teamwork, and communication
- Continuous improvement: feedback, maintenance logs, and performance metrics

- 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 **9 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 25,600.00	R 25,600.00
1	In-House	R 33,300.00	R 33,300.00
1	On-Campus (Pretoria)	R 38,400.00	R 38,400.00

UPCOMING SESSIONS

Start	End	Method	Venue
31 Jul 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	10 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	11 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	12 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	13 Aug 2026	On-Campus	Mauritius
07 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	17 Aug 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 110300) 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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