



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

Pre And Post Treatment Machine Unwind Unit Maintenance Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 114137 · NQF Level 4 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with the skills to safely and effectively maintain the unwind unit of pre- and post-treatment machines in a manufacturing environment. Participants will learn to perform preventative and corrective maintenance, identify common faults, and apply safety protocols to minimize downtime and ensure operational efficiency.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	114137
Accreditation	SAQA Accredited · NQF Level 4 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the correct procedures for isolating and locking out the unwind unit before maintenance.
- Apply systematic inspection techniques to identify wear, misalignment, or damage in unwind components.
- Perform routine lubrication and tension adjustment according to manufacturer specifications.
- Analyze common fault symptoms (e.g., web breaks, vibration) to diagnose root causes.
- Evaluate the condition of brakes, clutches, and sensors, and replace them when necessary.
- Implement a preventive maintenance schedule and document all maintenance activities.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, machine operators, and engineering staff responsible for the upkeep of unwind units in textile, paper, or packaging industries.

COURSE OUTLINE

Day 1: Fundamentals of Unwind Unit Operation and Maintenance Safety

- Overview of unwind unit in converting machinery.
- Key components: shaft, core chucks, tension control, brakes, and sensors.
- Safety protocols: lockout/tagout, guarding, PPE.
- Mechanical principles: torque, tension, web handling.
- Lubrication basics: types of lubricants, schedules.
- Introduction to maintenance documentation and checklists.

Day 2: Pre-Treatment Unwind Unit Maintenance Procedures

- Step-by-step pre-treatment maintenance checklist.
- Cleaning methods for rollers, chucks, and sensors.
- Tension control calibration: load cells, dancer rolls.
- Brake system maintenance: mechanical and pneumatic brakes.
- Bearing inspection and replacement.
- Troubleshooting common issues: web breaks, misalignment.

Day 3: Post-Treatment Unwind Unit Maintenance and Advanced Diagnostics

- Post-treatment maintenance: handling adhesive residues, static electricity.
- Advanced troubleshooting: electrical and pneumatic system checks.
- Condition monitoring: vibration analysis, temperature measurement.
- Replacement of worn components: chucks, clutch plates.
- Alignment procedures: shaft and roller alignment.
- Documentation of maintenance activities and root cause analysis.

Day 4: Integration, Optimization, and Final Assessment

- Developing a preventive maintenance schedule.
- Performance optimization: tension control tuning.
- Case studies: common failure modes and solutions.
- Practical assessment: full maintenance cycle on training rig.
- Review of safety and quality standards.
- Final knowledge assessment and feedback.

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 **7 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 20,500.00	R 20,500.00
1	In-House	R 26,600.00	R 26,600.00
1	On-Campus (Pretoria)	R 30,800.00	R 30,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	20 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 114137) 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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