



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

Paper Board Tissue Reel Production Using Winders Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110036 · NQF Level 3 · 14 Credits · 11 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to safely and efficiently produce paper board tissue reels using winders. It covers the entire process from machine setup and operation to quality control and troubleshooting, ensuring compliance with industry standards. Participants will gain hands-on competence to enhance productivity and minimise waste in a manufacturing environment.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110036
Accreditation	SAQA Accredited · NQF Level 3 · 14 Credits
Duration	11 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures and personal protective equipment requirements for winder operations.
- Demonstrate correct setup and calibration of winders for paper board tissue reel production.
- Operate winders to produce reels that meet specified quality standards.
- Monitor production parameters and adjust machine settings to maintain consistent output.
- Identify and troubleshoot common winding defects and equipment malfunctions.
- Evaluate finished reels against quality criteria and implement corrective actions.

WHO SHOULD ATTEND

- This training is designed for machine operators, production line workers, and technicians involved in paper board and tissue reel production.
- It is also suitable for team leaders and supervisors seeking to deepen their understanding of winding processes.

COURSE OUTLINE

Day 1: Introduction to Paper Board Tissue Reel Production and Winders

- Overview of paper board tissue manufacturing
- Types of winders: slitter-rewinders, center winders, surface winders
- Basic components of a winder: unwind stand, slitting section, rewind section
- Safety in the reel handling area
- Quality parameters: reel density, hardness, diameter

Day 2: Winder Mechanical Systems and Components

- Unwind stand and brake systems
- Tension control basics: load cells, dancer rolls
- Slitting station: knives, anvils, and knife holders
- Rewind section: shafts, cores, and core chucks
- Rider roll and drum systems
- Lubrication and maintenance points

Day 3: Electrical and Control Systems for Winders

- AC/DC drives and motors
- Programmable logic controllers (PLCs)
- Human-machine interface (HMI) screens
- Tension control loops
- Safety interlocks and emergency stops
- Sensor types and applications

Day 4: Winder Setup and Pre-Operation Checks

- Pre-start checklist: guards, brakes, air supply
- Unwind setup: chuck engagement, brake settings
- Slitter setup: knife pressure, overlap
- Core and shaft selection
- Rider roll loading settings
- HMI parameter entry

Day 5: Operating the Winder – Start-Up and Production

- Start-up sequence: jog, low speed, ramp up
- Web threading path and nip points
- Tension and speed adjustments
- Reel density monitoring
- Edge guide control
- Roll marking and labeling

Day 6: Quality Control and Troubleshooting Common Defects

- Defect types: crepe wrinkles, slack edges, hard/soft rolls
- Cause and effect analysis
- Adjusting tension, nip pressure, and slitter alignment
- Using hardness testers and scales
- Quality record keeping
- Sample collection and inspection

Day 7: Winder Maintenance and Cleaning Procedures

- Cleaning schedule: dust removal, adhesive residue
- Knife maintenance: sharpening, replacement
- Lubrication points and grease types
- Bearing and roll inspection
- Belt and chain tension checks
- Maintenance logs

Day 8: Safety, Lockout/Tagout, and Emergency Procedures

- LOTO steps: isolate, lock, tag, verify
- Emergency stop locations and testing
- Web break procedures
- Fire prevention: dust, static electricity
- Risk assessment methodology
- Incident reporting

Day 9: Advanced Winding Techniques and Optimization

- Winding theory: center vs. surface winding
- Nip pressure profiling
- Torque and taper control
- Grade-specific settings: tissue, board, specialty
- Waste reduction strategies
- Production reporting and KPIs

Day 10: Troubleshooting Complex Problems and Continuous Improvement

- Systematic troubleshooting: observe, analyze, test
- Root cause analysis tools: fishbone, 5 whys
- Case studies of common failures
- Continuous improvement principles
- Shift handover procedures
- Team communication skills

Day 11: Final Assessment and Practical Integration

- Review of all learning outcomes
- Written assessment
- Practical assessment: setup, operate, troubleshoot
- Reel quality evaluation
- Final Q&A; and feedback
- Certification preparation

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 **14 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 38,400.00	R 38,400.00
1	In-House	R 49,900.00	R 49,900.00
1	On-Campus (Pretoria)	R 57,600.00	R 57,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	18 Aug 2026	On-Campus	Mauritius
05 Aug 2026	19 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	19 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	21 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	24 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE

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 110036) 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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