



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 Pulp And Tissue Slitting Cutting Production Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110041 · NQF Level 3 · 16 Credits · 13 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to perform slitting, cutting, and production processes in the paper, board, pulp, and tissue industry. It covers the operation of machinery, quality control, and safety procedures to ensure efficient and effective production.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110041
Accreditation	SAQA Accredited · NQF Level 3 · 16 Credits
Duration	13 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply correct procedures for setting up and operating slitting and cutting machinery.
- Demonstrate adherence to safety protocols and quality standards during production.
- Analyze production outputs to identify deviations and implement corrective actions.
- Evaluate material characteristics to optimize slitting and cutting parameters.
- Implement maintenance procedures to ensure equipment reliability and longevity.
- Document production data and report on process performance.

WHO SHOULD ATTEND

- This course is designed for machine operators, production supervisors, and technicians working in the paper, board, pulp, and tissue manufacturing sector who need to enhance their slitting and cutting competencies.

COURSE OUTLINE

Day 1: Introduction to Paper Board, Pulp, and Tissue Manufacturing

- Overview of paper board, pulp, and tissue industries
- Raw materials: wood pulp, recycled fibre, additives
- Manufacturing processes: pulping, refining, forming, pressing, drying
- Introduction to converting: slitting, cutting, rewinding
- Safety basics in paper mill environments

Day 2: Pulp Preparation and Quality Control

- Mechanical pulping: groundwood, refiner mechanical pulp
- Chemical pulping: Kraft, sulphite
- Recycled fibre processing: deinking, screening
- Pulp quality testing: freeness, consistency, pH, brightness
- Defects: shives, dirt, fibre bundles

Day 3: Paper Board and Tissue Manufacturing Processes

- Fourdrinier and cylinder formers for board
- Tissue machines: crescent former, suction press
- Press section: roll presses, shoe presses
- Drying: cylinder drying, Yankee dryer for tissue
- Reeling: pope reel, reel spool handling

Day 4: Introduction to Slitting and Cutting Operations

- Web handling fundamentals: tension, alignment, web path
- Slitting methods: shear slitting, score slitting, razor slitting
- Cutting methods: guillotine cutting, rotary knife cutting
- Applications: board, tissue, pulp sheets
- Safety in slitting and cutting

Day 5: Slitting Equipment and Setup

- Slitter types: duplex, centre-surface, differential
- Knife materials: high-speed steel, carbide, ceramic
- Knife geometry: bevel angles, clearance
- Setup: knife positioning, pressure, speed
- Common issues: dust, edge quality, chatter

Day 6: Cutting Equipment and Setup

- Cutting machines: sheeters, cutters, trimmers
- Blade types: straight, circular, serrated
- Blade maintenance: sharpening, replacement
- Setup: sheet length, stack height, cutting sequence
- Defects: feathering, tearing, inaccurate length

Day 7: Quality Control in Slitting and Cutting

- Quality parameters: width tolerance, squareness, edge quality
- Measurement tools: callipers, micrometers, gauges
- Data collection and analysis
- Defect identification: dust, burrs, wavy edges

- Corrective actions: knife change, tension adjustment

Day 8: Maintenance and Troubleshooting

- Preventive maintenance: lubrication, knife checks, belt tension
- Inspection checklists
- Common mechanical issues: bearing wear, misalignment
- Electrical issues: motor faults, sensor calibration
- Lockout/tagout and safety protocols

Day 9: Production Planning and Efficiency

- Production scheduling: order prioritization, trim optimization
- Setup reduction techniques: SMED
- Waste reduction: edge trim, broke handling
- Production metrics: speed, yield, OEE
- Lean tools: 5S, Kaizen

Day 10: Automation and Control Systems

- PLC basics: inputs, outputs, ladder logic
- SCADA systems: HMI, data logging
- Control parameters: speed, tension, knife position
- Alarms: web break, tension loss, knife jam
- Automatic tension control: dancers, load cells

Day 11: Specialised Products and Applications

- Specialty board: liquid packaging, gypsum liner
- Coated and laminated products
- Tissue slitting: low tension, soft roll handling
- High-precision cutting for narrow widths
- Handling thick boards: score slitting techniques

Day 12: Environmental and Sustainability Practices

- Environmental legislation: NEMWA, water use licences
- Waste management: broke, edge trim, sludge
- Energy efficiency: motor drives, drying optimisation
- Water conservation: closed-loop systems
- Sustainability certifications: FSC, ISO 14001

Day 13: Integration, Assessment, and Final Practical

- Scenario-based production planning
- Hands-on assessment: setup, run, inspect
- Written and oral assessment
- Feedback and improvement plan
- Course summary and certification

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 **16 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,500.00	R 43,500.00
1	In-House	R 56,600.00	R 56,600.00
1	On-Campus (Pretoria)	R 65,200.00	R 65,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	19 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	19 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	21 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	24 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	25 Aug 2026	On-Campus	Mauritius
10 Aug 2026	26 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	27 Aug 2026	On-Campus	Mauritius

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 110041) 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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