



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

Laminated Paper And Board Production Techniques Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110085 · NQF Level 2 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to produce laminated paper and board products in a manufacturing environment. It covers the entire production process from material preparation to quality control, ensuring compliance with industry standards and safety regulations.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110085
Accreditation	SAQA Accredited · NQF Level 2 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of lamination to paper and board substrates using appropriate adhesives and techniques.
- Demonstrate correct setup and operation of lamination machinery including coating, drying, and finishing equipment.
- Analyze product specifications and adjust process parameters to achieve required quality and performance.
- Evaluate laminated products against quality standards using physical and visual inspection methods.
- Implement safety and environmental procedures relevant to lamination processes and material handling.

WHO SHOULD ATTEND

- Production operators, machine setters, and supervisors in the paper and board converting industry who are responsible for laminated product manufacturing.

COURSE OUTLINE

Day 1: Introduction to Laminated Paper and Board Production

- Overview of laminated paper and board products.
- Raw materials: paper, board, adhesives, coatings.
- Basic lamination processes: wet, dry, solventless.
- Quality parameters: bond strength, appearance.
- Health, safety, and environmental considerations.
- Industry standards and regulations.

Day 2: Raw Materials and Adhesives

- Paper and board grades and specifications.
- Adhesive chemistry and properties.
- Selection criteria for adhesives.
- Material storage and shelf life.
- Quality testing of raw materials.

Day 3: Lamination Processes – Wet and Dry

- Wet lamination process: coating, drying, laminating.
- Dry lamination process: adhesive application, solvent removal, nip.
- Process parameters: temperature, pressure, speed.
- Common defects and troubleshooting.
- Equipment overview: coaters, dryers, laminators.

Day 4: Solventless and Extrusion Lamination

- Solventless lamination: adhesives, mixing, application.
- Extrusion lamination: extruder, die, chill roll.
- Process control and quality.
- Applications: flexible packaging, labels.
- Environmental and safety aspects.

Day 5: Coating and Surface Treatments

- Coating methods: roll, blade, gravure.
- Coating formulations: waterborne, solventborne, UV.
- Surface treatments for adhesion enhancement.
- Barrier coatings: moisture, oxygen, grease.
- Coating quality and defect analysis.

Day 6: Quality Control and Testing

- Quality standards: ASTM, ISO, SANS.
- Testing equipment: peel tester, tensile tester, seal tester.
- In-process and final product testing.
- Statistical process control basics.
- Root cause analysis and corrective actions.

Day 7: Troubleshooting and Defect Analysis

- Defect types: wrinkles, bubbles, poor adhesion.
- Cause-and-effect analysis.
- Troubleshooting guides.

- Process optimization techniques.
- Case studies.

Day 8: Equipment Maintenance and Safety

- Preventive maintenance schedules.
- Cleaning and lubrication.
- Safety systems: emergency stops, guards.
- Lockout/tagout procedures.
- Fire safety and chemical handling.

Day 9: Environmental and Sustainability Considerations

- Waste management: scrap, solvents, adhesives.
- Recycling of laminated products.
- Biodegradable and compostable options.
- Environmental regulations (NEMA, etc.).
- Life cycle assessment basics.

Day 10: Advanced Lamination Techniques

- Metallized and holographic films.
- High-barrier structures: aluminum foil, EVOH.
- Digital printing and lamination integration.
- Smart packaging and active laminates.
- Industry 4.0 in lamination.

Day 11: Production Planning and Optimization

- Production planning: order of runs, setup reduction.
- Lean tools: 5S, Kaizen, value stream mapping.
- Waste reduction strategies.
- Scheduling and workflow.
- Key performance indicators (KPIs).

Day 12: Integration and Final Assessment

- Review of key concepts.
- Simulated production exercise.
- Written and practical assessment.
- Feedback and discussion.
- Action plan for continuous improvement.

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 **15 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 41,000.00	R 41,000.00
1	In-House	R 53,300.00	R 53,300.00
1	On-Campus (Pretoria)	R 61,500.00	R 61,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	20 Aug 2026	On-Campus	Mauritius
06 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	21 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	24 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	25 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	26 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	27 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 110085) 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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