



Accredited Africa Training Institute for Capacity Development

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COURSE BROCHURE

Textile Dry Process Product Changeover Procedure Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 116323 · NQF Level 4 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to perform product changeovers in textile dry processes safely and efficiently. It covers procedures for cleaning, setup adjustments, and quality checks to minimize downtime and waste. The training aims to ensure consistent product quality and compliance with industry standards.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	116323
Accreditation	SAQA Accredited · NQF Level 4 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply correct changeover procedures for textile dry process equipment.
- Analyze changeover requirements based on product specifications and production schedules.
- Evaluate equipment cleanliness and setup readiness before initiating production.
- Implement quality control checks during and after changeover to ensure product conformity.
- Demonstrate adherence to safety protocols and standard operating procedures during changeovers.

WHO SHOULD ATTEND

- Machine operators, production supervisors, and technical staff involved in textile dry process changeovers in manufacturing environments.

COURSE OUTLINE

Day 1: Introduction to Textile Dry Processes and Changeover Principles

- Overview of textile dry processes: opening, blending, carding, drawing, roving, spinning.
- What is product changeover? Scope and impact on production.
- Key performance indicators: downtime, waste, quality defects.
- Safety fundamentals: lockout/tagout, PPE, machine guarding.
- Introduction to changeover documentation and standard operating procedures.

Day 2: Understanding the Unit Standard 116323 and Regulatory Framework

- Breakdown of Unit Standard 116323: specific outcomes, assessment criteria.
- NQF level 4: skills and knowledge requirements.
- Legal compliance: OHS Act 85 of 1993, environmental regulations.
- Company-specific policies and procedures for changeover.
- Roles of operators, supervisors, and quality control personnel.

Day 3: Machine-Specific Changeover Procedures – Blowroom and Carding

- Blowroom setup: bale opener, cleaner, mixer settings.
- Carding machine: settings for different fibre types and counts.
- Changeover steps: stopping, cleaning, adjusting, restarting.
- Cleaning procedures: removal of residual fibres, dust control.
- Quality verification: sliver uniformity, nep count, trash content.

Day 4: Changeover for Drawing and Roving Frames

- Drawing frame: roller settings, draft ratios, creel configuration.
- Roving frame: flyer speed, twist, bobbin build parameters.
- Changeover steps: cleaning roller laps, replacing cots and aprons.
- Adjusting for different fibre blends and linear densities.
- Common defects: uneven sliver, roving breaks, and corrective actions.

Day 5: Spinning Frame Changeover (Ring and Compact Spinning)

- Ring spinning frame components: spindles, rings, travelers, drafting system.
- Compact spinning: suction inserts, perforated drums.
- Changeover steps: doffing, cleaning, traveler ring conditioning.
- Parameter adjustments: twist multiplier, draft ratio, spindle speed.
- Quality control: Uster statistics, yarn appearance grading.

Day 6: Winding and Package Preparation Changeover

- Winding machine setup: cone, cheese, dye package configurations.
- Changeover steps: tube change, tensioner adjustment, clearer calibration.
- Yarn clearer settings: capacitance or optical, threshold for faults.
- Splicing vs. knotting: selection criteria and procedure.
- Quality checks: package hardness, yarn breakage rate, fault removal.

Day 7: Quality Assurance During Changeover – Sampling and Testing

- Sampling plan: frequency, location, sample size.
- Testing: count (Nm/Ne), twist per inch, tensile strength, evenness (CV%).
- Using laboratory instruments: wrap reel, twist tester, tensile tester.
- Statistical process control: control charts, capability indices.

- Corrective actions: adjusting machine settings based on test data.

Day 8: Waste Management and Environmental Considerations

- Waste types: hard waste, soft waste, contaminated material.
- Waste reduction techniques: optimised cleaning, use of waste collection systems.
- Environmental compliance: waste management plan, recycling options.
- Lean manufacturing: SMED (Single-Minute Exchange of Die) principles.
- Recording and reporting waste quantities for continuous improvement.

Day 9: Changeover Planning and Scheduling

- Changeover planning: sequence, resource allocation, time estimation.
- Communication: shift handover, production meetings, work orders.
- Standard work: visual aids, job aids, checklists.
- Metrics: changeover time, first-pass yield, defect rate.
- Continuous improvement: root cause analysis of changeover delays.

Day 10: Troubleshooting and Problem Solving During Changeover

- Common issues: improper settings, contamination, mechanical failures.
- Troubleshooting methodology: observe, analyse, test, correct.
- Case studies: blowroom blockages, carding web breaks, spinning ends down.
- Root cause analysis tools: fishbone diagram, fault tree analysis.
- Documentation: problem log, corrective action report.

Day 11: Practical Application – Simulated Changeover Exercise

- Scenario: change from product A to product B (different fibre or count).
- Team roles: operator, quality checker, supervisor.
- Execution: planning, cleaning, setting, sampling, testing.
- Time management: target changeover duration.
- Debrief: review successes, challenges, and lessons learned.

Day 12: Assessment, Certification, and Continuous Improvement

- Assessment: theory test, practical demonstration, portfolio of evidence.
- Feedback: areas of strength and areas for development.
- Certification: SAQA-aligned certificate issuance.
- Continuous improvement: Kaizen, PDCA cycle.
- Career pathways: advanced textile qualifications, supervisory roles.

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 4**.

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	Pretoria, South Africa
04 Aug 2026	19 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	20 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	21 Aug 2026	On-Campus	Mauritius
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	Abu Dhabi, UAE
12 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 116323) 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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