



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 Defect Identification Through Visual Inspection Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 114279 · NQF Level 3 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the skills to identify paper defects through visual inspection, ensuring quality control in paper manufacturing and converting processes. Participants will learn to detect common defects, understand their causes, and apply systematic inspection techniques to maintain product standards.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	114279
Accreditation	SAQA Accredited · NQF Level 3 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to identify common paper defects such as holes, spots, wrinkles, and edge cracks through visual inspection.
- Apply systematic inspection procedures to assess paper quality according to industry standards.
- Analyze the causes of identified defects and recommend corrective actions.
- Evaluate the severity of defects and classify them based on impact on product usability.
- Implement documentation procedures for recording inspection findings and defect data.

WHO SHOULD ATTEND

- This course is designed for quality control inspectors, production operators, and technicians in the paper and pulp industry who are responsible for visual inspection of paper products.

COURSE OUTLINE

Day 1: Introduction to Paper Defects and Visual Inspection

- Overview of paper manufacturing and quality standards
- Common paper defects: holes, spots, wrinkles, streaks, and slime spots
- Causes of defects: raw materials, process variations, and equipment issues
- Principles of visual inspection: lighting, viewing angles, and distance
- Safety and ergonomics for inspectors

Day 2: Defect Classification and Terminology

- Defect classification systems (e.g., TAPPI, ISO)
- Surface defects: pits, blisters, and debris
- Structural defects: tears, holes, and edge cracks
- Optical defects: color variation, brightness, and opacity
- Severity rating scales and defect categorization

Day 3: Visual Inspection Techniques and Tools

- Lighting types: transmitted, reflected, and polarized light
- Viewing angles and inspection distances
- Use of magnifiers, microscopes, and gauges
- Inspection patterns: grid, spiral, and strip methods
- Documentation: defect logs, photos, and reports

Day 4: Defect Identification – Surface and Structural Defects

- Detailed examination of spots: dirt, grease, and coating defects
- Wrinkles and creases: causes and severity
- Holes and tears: size measurement and classification
- Edge defects: cracks, curls, and damage
- Defect origin analysis: process vs. material

Day 5: Defect Identification – Optical and Coating Defects

- Color variation and shade matching
- Mottle and formation issues
- Gloss and surface smoothness defects
- Coating defects: uneven coating, scratches, and orange peel
- Measurement instruments: spectrophotometers, gloss meters

Day 6: Inspection Standards and Specifications

- Quality standards: ISO, SAQA, and company specifications
- Acceptable Quality Limits (AQL) and sampling plans
- Defect severity classification: critical, major, minor
- Reporting formats: defect maps and summary sheets
- Communication with production and quality teams

Day 7: Advanced Inspection Techniques and Automation

- Overview of automated inspection: cameras, lighting, and software
- Manual vs. automated inspection: strengths and limitations
- Calibration and maintenance of inspection equipment
- Common inspection errors: fatigue, bias, and environmental factors

- Quality control loops and feedback

Day 8: Practical Application and Case Studies

- Hands-on inspection of sample rolls
- Case studies: root cause analysis of recurring defects
- Team exercises: defect identification and classification
- Report writing and presentation
- Review of common pitfalls and best practices

Day 9: Assessment and Certification

- Practical exam: visual inspection of multiple samples
- Written test on defect types, standards, and techniques
- Individual feedback session
- Certification requirements and next steps
- Course evaluation and closing

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 **12 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 33,300.00	R 33,300.00
1	In-House	R 43,300.00	R 43,300.00
1	On-Campus (Pretoria)	R 50,000.00	R 50,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
06 Aug 2026	18 Aug 2026	On-Campus	Johannesburg, South Africa
07 Aug 2026	19 Aug 2026	On-Campus	Mauritius
10 Aug 2026	20 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	24 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	25 Aug 2026	On-Campus	Durban, South Africa
13 Aug 2026	25 Aug 2026	On-Campus	Mauritius
14 Aug 2026	26 Aug 2026	On-Campus	Cape Town, 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 114279) 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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