



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

Wood Chip Production And Storage Techniques Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110039 · NQF Level 3 · 14 Credits · 11 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to produce and store wood chips effectively and safely. It covers the processes from raw material selection to storage techniques, ensuring quality and compliance with industry standards.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110039
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 wood chip production techniques including chipping, screening, and quality control.
- Implement safe storage methods to prevent degradation, fire hazards, and environmental impact.
- Analyze factors affecting wood chip quality such as moisture content, particle size, and contamination.
- Demonstrate knowledge of relevant health, safety, and environmental regulations.
- Evaluate storage facility design and management for optimal wood chip preservation.
- Design a basic wood chip production and storage plan incorporating industry best practices.

WHO SHOULD ATTEND

- This course is intended for forestry workers, sawmill operators, and individuals involved in wood chip production and storage within the timber industry.

COURSE OUTLINE

Day 1: Introduction to Wood Chip Production and Storage

- Overview of wood chip applications (paper, energy, composites)
- Industry standards and quality requirements
- Course outcomes and unit standard alignment
- Safety protocols and PPE requirements
- Environmental impact and sustainability principles

Day 2: Wood Raw Material Selection and Preparation

- Wood species characteristics (softwood vs hardwood)
- Moisture content measurement methods
- Debarking techniques and equipment
- Log sorting and handling procedures
- Contaminant identification and removal

Day 3: Chipping Equipment and Operation

- Disc chipper components and operation
- Drum chipper components and operation
- Knife maintenance and adjustment
- Chip size control (screen selection, feed rate)
- Pre-start checks and safety interlocks

Day 4: Chipper Maintenance and Troubleshooting

- Lubrication schedules and procedures
- Knife sharpening and replacement methods
- Anvil and screen inspection
- Troubleshooting blockages and uneven chip size
- Maintenance logs and records

Day 5: Chip Handling and Conveying Systems

- Belt conveyor components and operation
- Screw conveyor design and applications
- Pneumatic conveying systems
- Flow control and metering devices
- Conveyor safety guards and emergency stops

Day 6: Chip Storage Methods and Facilities

- Open pile storage: advantages and risks
- Silo storage: types and discharge systems
- Covered storage: domes and sheds
- Degradation mechanisms (biological, chemical, physical)
- Stock management and inventory control

Day 7: Moisture Management and Drying Techniques

- Moisture content measurement tools (oven, probe)
- Natural drying: windrowing and turning
- Mechanical drying: rotary and belt dryers
- Spontaneous combustion prevention

- Energy considerations in drying

Day 8: Quality Control and Sampling

- Sampling methods (grab, composite, systematic)
- Chip size classification (oversize, accepts, fines)
- Screen analysis using mechanical sieves
- Bark content measurement
- Quality records and corrective actions

Day 9: Safety, Health, and Environmental Management

- Hazard identification (noise, dust, machinery)
- Risk assessment matrix and controls
- Dust suppression systems and respiratory protection
- Fire prevention and emergency response
- Environmental permits and waste management

Day 10: Production Planning and Optimisation

- Production scheduling and shift planning
- Throughput optimization (feed rate, knife condition)
- Storage capacity calculations
- Data collection and performance metrics
- Continuous improvement techniques

Day 11: Integration, Assessment, and Certification

- Case study: end-to-end production scenario
- Written assessment covering theory and calculations
- Practical assessment of key skills
- Feedback session and improvement areas
- Certification and unit standard credit

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	Cape Town, South Africa
04 Aug 2026	18 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	20 Aug 2026	On-Campus	Mauritius
07 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	21 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	24 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	24 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 110039) 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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