



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

Case Packer And Sealer Unit Maintenance Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 117612 · NQF Level 4 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips maintenance technicians and operators with the skills to perform routine maintenance, troubleshooting, and repairs on case packer and sealer units. Participants will learn to interpret technical manuals, apply safety protocols, and ensure optimal machine performance, reducing downtime and improving production efficiency.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	117612
Accreditation	SAQA Accredited · NQF Level 4 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply systematic procedures to inspect, clean, and lubricate case packer and sealer unit components.
- Analyze common mechanical and electrical faults to diagnose root causes and implement corrective actions.
- Evaluate machine performance data to schedule preventive maintenance and optimize operational efficiency.
- Demonstrate safe isolation, lock-out/tag-out, and start-up procedures in compliance with workplace safety standards.
- Implement adjustments to align, tension, and calibrate sealing and packing mechanisms according to manufacturer specifications.
- Document maintenance activities and report non-conformances using standardised forms and systems.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, machine operators, and production supervisors responsible for the upkeep and operation of case packing and sealing equipment in manufacturing environments.

COURSE OUTLINE

Day 1: Introduction to Case Packer and Sealer Units

- Overview of packaging machinery and line integration
- Types of case packers (wrap-around, tray, side-load)
- Types of sealers (hot melt, tape, glue)
- Component identification: infeed, forming, sealing, outfeed
- Safety signs, lockout/tagout, PPE requirements
- Basic mechanical and electrical principles

Day 2: Mechanical Systems and Components

- Conveyor systems: belts, rollers, drives
- Pneumatic systems: cylinders, valves, air preparation
- Guide rails, forming mandrels, and magazine feeders
- Lubrication schedules and types of lubricants
- Adjustment procedures for case size changeovers
- Common mechanical failures and corrective actions

Day 3: Electrical and Control Systems

- PLC basics: inputs, outputs, ladder logic overview
- Sensors: photoelectric, proximity, limit switches
- Actuators: motors, solenoids, heaters
- Reading wiring diagrams and component identification
- Using multimeters for voltage, continuity, resistance tests
- Common electrical faults: short circuits, sensor misalignment

Day 4: Sealing Systems and Quality Control

- Hot melt systems: tank, hoses, guns, temperature control
- Tape sealing units: tension, cut-off, application
- Cold glue systems: nozzles, pumps, pattern adjustment
- Seal strength tests: peel test, burst test
- Common defects: incomplete seal, adhesive stringing, burn-through
- Adjustment procedures for different case materials

Day 5: Preventive Maintenance and Inspection

- Daily, weekly, monthly maintenance checklists
- Cleaning procedures for glue residue, dust, debris
- Bearing and chain inspection and replacement
- Belt tensioning and tracking adjustments
- Sensor cleaning and alignment checks
- Maintenance logs and reporting

Day 6: Troubleshooting and Fault Finding

- Troubleshooting flowcharts and decision trees
- Common jam scenarios: infeed, forming, sealing, outfeed
- Electrical fault isolation: power loss, PLC fault, sensor failure
- Pneumatic system faults: low pressure, leaks, cylinder sticking
- Using manufacturer manuals and spare parts lists

- Case studies and hands-on fault simulation

Day 7: Integration, Optimisation, and Assessment

- Line integration: synchronising case packer with upstream/downstream machines
- Speed adjustments and throughput optimisation
- Complete changeover from one case size to another
- Hands-on practical assessment: preventive maintenance, fault finding, adjustments
- Written assessment covering theory and safety
- Review of key learning points and Q&A;

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 **10 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
07 Aug 2026	17 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	18 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	19 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Mauritius
12 Aug 2026	20 Aug 2026	On-Campus	Cape Town, South Africa
13 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
14 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
17 Aug 2026	25 Aug 2026	On-Campus	Durban, 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 117612) 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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