



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

Advanced Pet Food Kibble Coating Equipment Operation Control Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 116049 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This advanced course equips learners with specialised skills to operate, control, and optimise pet food kibble coating equipment in a manufacturing environment. Participants will gain in-depth knowledge of coating processes, quality assurance, and equipment maintenance to ensure consistent product quality and operational efficiency.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	116049
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply advanced operational procedures to set up, start up, and shut down kibble coating equipment safely and efficiently.
- Analyse coating parameters (e.g., temperature, spray rate, drum speed) to optimise coating uniformity and product quality.
- Evaluate coating equipment performance and troubleshoot common operational issues using systematic diagnostic techniques.
- Implement preventive maintenance schedules and cleaning protocols to extend equipment lifespan and minimise downtime.
- Demonstrate compliance with food safety standards (e.g., HACCP, GMP) and environmental regulations during coating operations.
- Design process adjustments based on real-time quality feedback to achieve target coating specifications.

WHO SHOULD ATTEND

- This course is designed for production supervisors, machine operators, and quality control personnel working in pet food manufacturing facilities who are responsible for kibble coating operations.

COURSE OUTLINE

Day 1: Fundamentals of Kibble Coating Equipment

- Introduction to kibble coating processes (batch vs. continuous).
- Overview of coating equipment types (drum, spray, vacuum).
- Major components: spray nozzles, drums, conveyors, control panels.
- Safety procedures: lockout/tagout, PPE, emergency stops.
- Basic coating materials: fats, flavors, preservatives.
- Pre-operational checks: cleanliness, mechanical integrity.
- Standard operating procedures (SOPs) for startup.
- Documentation: log sheets, batch records.

Day 2: Control Systems and Parameter Setup

- Introduction to HMI/PLC basics for coating equipment.
- Parameter configuration: temperature setpoints, spray flow rates.
- Drum speed and tilt angle adjustments.
- Sensor calibration: thermocouples, flow meters, pressure transducers.
- Alarm types and responses: low temperature, clogged nozzle.
- Data logging and recipe management.
- Manual vs. automatic mode operation.
- Hands-on practice: setting up a coating run.

Day 3: Operational Techniques and Quality Control

- Step-by-step operation of a coating run.
- Real-time parameter adjustment techniques.
- Quality control tests: sieve analysis, visual inspection, fat content.
- Troubleshooting defects: nozzle blockage, drum buildup.
- Changeover procedures: cleaning and sanitization.
- Sampling protocols and record keeping.
- Impact of coating on kibble shelf life and palatability.
- Hands-on: running a batch with quality checks.

Day 4: Advanced Process Optimization and Troubleshooting

- Efficiency optimization: minimizing over-spray and downtime.
- Advanced troubleshooting: electrical, mechanical, pneumatic issues.
- Preventive maintenance: bearing lubrication, belt tensioning.
- Data analysis: using trend charts to predict failures.
- Introduction to vacuum coating and multi-layer coating.
- Cost management: coating material usage tracking.
- Root cause analysis for recurring defects.
- Hands-on: optimizing a coating process for yield.

Day 5: Integration, Compliance, and Practical Assessment

- Full production simulation: setup, run, quality checks, shutdown.
- Regulatory compliance: SANS, FSSC 22000, OHSA.
- Environmental considerations: waste disposal, emissions.
- Documentation: batch reports, maintenance logs, incident reports.
- Handover procedures for shift changes.

- Practical assessment: individual operation and troubleshooting.
- Continuous improvement: identifying opportunities for Kaizen.
- Course wrap-up, Q&A, and certification.

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 **8 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, 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 116049) 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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