Livestock Feed Milling Operations Training Course

Professional Development Training Course Outline

Category	Veterinary and Animal Science	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Livestock Feed Milling Operations Training Course is designed to equip professionals with advanced knowledge in feed manufacturing technology, quality control systems, nutritional optimization, and sustainable feed production. As global demand for high-performance animal nutrition, precision livestock farming, and feed safety compliance continues to grow, this course bridges the skills gap by integrating modern feed mill engineering, digital automation, and regulatory standards. Participants will gain hands-on exposure to feed formulation software, HACCP implementation, pellet quality enhancement, cost-efficient raw material sourcing, and feed plant optimization strategies.

This intensive training emphasizes operational excellence, biosecurity management, feed safety standards (HACCP & GMP+), smart manufacturing systems, and profitability optimization in feed milling operations. Through real-world case studies, performance analytics, and practical simulations, learners will master feed mill process flow, machinery maintenance, quality assurance protocols, and sustainable feed production practices. The course prepares professionals to lead modern feed manufacturing facilities with a strong focus on efficiency, innovation, compliance, and global competitiveness.

Programme Curriculum

Livestock Feed Milling Operations Training Course

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Course Duration

5 days

Course Objectives

1. Master Feed Formulation Optimization using AI-driven Software Tools
2. Implement HACCP, GMP+, and ISO Feed Safety Compliance Systems
3. Improve Pellet Quality & Feed Conversion Ratio (FCR) Optimization
4. Design Efficient Feed Mill Plant Layout & Process Flow Automation
5. Apply Smart Manufacturing & Industry 4.0 in Feed Milling
6. Optimize Raw Material Procurement & Supply Chain Management
7. Strengthen Quality Assurance & Laboratory Testing Protocols
8. Enhance Energy Efficiency & Sustainable Feed Production Systems
9. Develop Preventive Maintenance & Equipment Reliability Programs
10. Implement Livestock Nutrition Precision Feeding Strategies
11. Manage Feed Cost Control & Profitability Optimization Models
12. Apply Biosecurity & Contamination Prevention Systems
13. Analyze Data-Driven Decision Making & Production Performance KPIs

Target Audience

1. Feed Mill Managers
2. Animal Nutritionists
3. Livestock Farm Owners
4. Quality Control & QA Managers
5. Production Supervisors
6. Agribusiness Entrepreneurs
7. Feed Plant Engineers & Technicians
8. Veterinary & Animal Health Professionals

Course Modules

Module 1: Fundamentals of Livestock Feed Milling

- Feed industry overview & global market trends
- Types of livestock feeds (Poultry, Ruminant, Aquaculture)
- Feed mill process flow design
- Raw material classification & handling
- Case Study: Optimizing feed mill efficiency in a mid-scale poultry plant

Module 2: Feed Formulation & Nutritional Optimization

- Nutrient requirement standards
- Least-cost formulation strategies
- Use of feed formulation software
- Additives, premixes & enzyme technologies
- Case Study: Reducing feed cost by 12% using precision formulation software

Module 3: Feed Manufacturing Technology

- Grinding, mixing & batching systems
- Pelleting, extrusion & crumbling technology
- Automation & PLC controls
- Moisture management techniques
- Case Study: Improving pellet durability index (PDI) in a commercial feed mill

Module 4: Quality Control & Laboratory Management

- Feed sampling & proximate analysis
- Mycotoxin risk management
- HACCP implementation steps
- GMP+ compliance procedures
- Case Study: Preventing aflatoxin contamination through proactive QA systems

Module 5: Equipment Maintenance & Plant Efficiency

- Preventive & predictive maintenance
- Spare parts inventory control
- Downtime reduction strategies
- Energy-saving systems
- Case Study: Reducing machine downtime by 20% via maintenance scheduling

Module 6: Feed Safety, Biosecurity & Regulatory Compliance

- International feed safety standards
- Traceability systems
- Risk assessment protocols
- Contamination control systems
- Case Study: Implementing a biosecurity plan in a ruminant feed plant

Module 7: Cost Control & Financial Management

- Feed production cost analysis
- Budgeting & forecasting
- KPI monitoring dashboards
- ROI calculation for equipment upgrades
- Case Study: Improving profit margin through operational benchmarking

Module 8: Sustainable & Smart Feed Milling Operations

- Sustainable sourcing strategies
- Waste reduction & circular economy models
- Digital transformation in feed mills
- Industry 4.0 technologies

- Case Study: Integrating smart sensors for real-time feed production monitoring

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com