Training Course on Modern Poultry Production and Biosecurity Management

Professional Development Training Course Outline

Category	Agriculture	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Modern poultry farming has evolved into a dynamic and data-driven industry, requiring updated knowledge in poultry production systems, animal health, food safety, and environmental management. As global demand for poultry meat and eggs continues to rise, efficient production practices, sustainable feed strategies, and enhanced biosecurity protocols are essential for profitability and disease prevention. Training Course on Modern Poultry Production and Biosecurity Management offers an in-depth, hands-on training approach to equip participants with advanced techniques in poultry farm management, including disease surveillance, waste management, automation, and policy compliance in poultry enterprises.

This training focuses on critical issues such as avian influenza prevention, antimicrobial resistance, genetic improvement, and climate-resilient poultry farming. Participants will learn how to integrate smart technologies, enforce farm-level hygiene protocols, and manage breeding cycles to optimize productivity. With practical case studies, real-life simulations, and scenario-based problem solving, the course strengthens capacity for sustainable poultry development in both smallholder and commercial setups.

Programme Curriculum

Training Course on Modern Poultry Production and Biosecurity Management

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Course Objectives

By the end of this course, participants will be able to:

1. Understand the fundamentals of modern poultry farming systems.
2. Apply advanced biosecurity practices in poultry production units.
3. Analyze key poultry diseases and develop prevention strategies.
4. Design cost-effective and sustainable poultry housing systems.
5. Implement smart feeding and nutritional management for high yields.
6. Monitor poultry health through effective diagnostics and treatment plans.
7. Optimize egg production through reproductive management techniques.
8. Use climate-smart strategies for poultry farming sustainability.
9. Integrate technology and data-driven systems in poultry management.
10. Apply principles of animal welfare and ethics in poultry farming.
11. Establish waste management and environmental safety protocols.
12. Prepare for poultry farm certification and regulatory compliance.
13. Assess financial risks and business models in poultry agribusiness.

Target Audiences

1. Poultry farmers (smallholder & commercial)
2. Veterinary professionals
3. Agribusiness entrepreneurs
4. Agricultural extension officers
5. Farm managers and supervisors
6. Livestock policy makers
7. Animal health and biosecurity consultants
8. Students and researchers in animal science

Course Duration: 10 days

Course Modules

Module 1: Introduction to Modern Poultry Farming

- Overview of poultry industry trends
- Classification of poultry systems
- Economic importance of poultry
- Challenges and opportunities
- Key stakeholders in poultry value chain
- **Case Study**: Transforming a backyard poultry farm into a commercial enterprise

Module 2: Poultry Housing Design and Management

- Principles of poultry house construction
- Ventilation and lighting systems
- Space requirements by poultry type
- Litter management and flooring
- Environmental control in poultry houses

- **Case Study**: Designing climate-controlled poultry houses in Kenya

Module 3: Biosecurity Protocols in Poultry Farms

- Importance of biosecurity
- Farm entry protocols
- Zoning and compartmentalization
- Cleaning and disinfection schedules
- Visitor and equipment control
- **Case Study**: Containing an avian flu outbreak using strict biosecurity

Module 4: Poultry Breeds and Genetic Selection

- Common commercial breeds
- Breeding objectives and traits
- Genetic improvement programs
- Crossbreeding and hybrid vigor
- Selection methods and tools
- **Case Study**: Performance comparison of local vs hybrid layers

Module 5: Feeding and Nutrition Management

- Nutrient requirements by poultry type
- Feed formulation and sourcing
- Feeding schedules and systems
- Supplementation and additives
- Feed storage and quality control
- **Case Study**: Optimizing feed conversion ratio in broilers

Module 6: Health Monitoring and Disease Control

- Common poultry diseases
- Vaccination programs
- Early disease detection
- Treatment and medication protocols
- Record keeping for health management
- **Case Study**: Disease outbreak investigation in a commercial broiler farm

Module 7: Hatchery Operations and Chick Management

- Incubation management
- Egg handling and sanitation
- Hatchery hygiene protocols
- Chick grading and delivery
- Brooding systems
- **Case Study**: Boosting hatchability rates through controlled incubation

Module 8: Egg Production and Layer Management

- Layer breed selection
- Lighting programs for layers
- Egg quality control
- Culling and replacement strategies
- Marketing table eggs
- **Case Study**: Maximizing egg production in battery cage systems

Module 9: Broiler Production Systems

- Broiler growth cycles
- Stocking density and space planning
- Feeding regimes for broilers
- Monitoring weight gain and performance
- Broiler harvesting and marketing
- **Case Study**: Cost-benefit analysis of deep litter vs. cage systems

Module 10: Climate-Smart Poultry Practices

- Heat stress management
- Sustainable water use
- Eco-friendly building materials
- Renewable energy in poultry
- Mitigating GHG emissions
- **Case Study**: Solar-powered poultry houses in East Africa

Module 11: Poultry Waste and Environmental Management

- Manure handling techniques
- Composting and biogas generation
- Odor and fly control
- Wastewater treatment
- Environmental regulations
- **Case Study**: Turning poultry waste into farm income

Module 12: Poultry Farm Record Keeping and ICT Integration

- Record types and formats
- Software and mobile apps
- Inventory and production logs
- Health and vaccination records
- Decision-making from data
- **Case Study**: Impact of mobile technology on poultry profitability

Module 13: Poultry Product Processing and Value Addition

- Meat and egg processing standards
- Packaging and branding
- Cold chain and transport
- Quality control protocols
- Value-added product development
- **Case Study**: Starting a local egg powder production unit

Module 14: Poultry Business Planning and Financial Management

- Business model development
- Budgeting and financial planning
- Credit and insurance access
- Marketing strategies
- Financial risk assessment
- **Case Study**: Scaling up a poultry agribusiness startup

Module 15: Regulatory Compliance and Farm Certification

- National and international standards
- Animal welfare legislation

- Food safety certifications
- Traceability systems
- Export readiness assessments
- **Case Study**: Preparing a farm for ISO 22000 certification

Training Methodology

- Practical farm visits and demonstrations
- Interactive lectures and expert panels
- Hands-on sessions with poultry equipment
- Case study analysis and role-playing
- Group work and peer learning
- Action planning and progress reviews

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

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