Training Course on Smallholder Livestock Production Systems Enhancement

Professional Development Training Course Outline

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

Course Introduction

Smallholder livestock production systems are critical to food security, poverty reduction, and sustainable livelihoods, particularly in rural communities across Africa, Asia, and Latin America. Enhancing these systems through sustainable practices, innovative technologies, and integrated approaches can significantly boost productivity, animal health, market access, and climate resilience. Training Course on Smallholder Livestock Production Systems Enhancement is designed to equip participants with practical, scalable strategies to improve smallholder livestock management, feeding systems, breeding, disease control, and agribusiness integration.

With the rise of climate-smart agriculture, digital livestock technologies, and value chain integration, this course focuses on sustainable development goals (SDGs), gender equity, and capacity-building for long-term rural transformation. Keywords like sustainable livestock production, climate-smart practices, animal health, youth inclusion, and value chain enhancement reflect the core vision of this training.

Programme Curriculum

Training Course on Smallholder Livestock Production Systems Enhancement

Introduction

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Course Objectives

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

1. Understand smallholder livestock production systems and their global impact.
2. Apply climate-smart livestock practices for sustainability.
3. Implement integrated livestock-crop systems.
4. Improve livestock feed management and nutrition planning.
5. Enhance animal health through proactive veterinary practices.
6. Utilize digital tools in livestock monitoring and data management.
7. Strengthen value chains and market linkages.
8. Apply sustainable breeding and genetic improvement techniques.
9. Promote gender-sensitive livestock strategies.
10. Understand the role of youth in livestock development.
11. Manage livestock waste and promote environmental conservation.
12. Develop agribusiness models for smallholder profitability.
13. Apply risk management and climate adaptation strategies.

Target Audience

1. Smallholder farmers
2. Livestock extension officers
3. Agricultural NGOs and development partners
4. Government agricultural officers
5. Rural youth in agriculture
6. Women in livestock production
7. Agribusiness entrepreneurs
8. Veterinarians and animal health professionals

Course Duration: 10 days

Course Modules

Module 1: Introduction to Smallholder Livestock Systems

- Definition and types of smallholder systems
- Global contribution and socio-economic role
- Regional challenges and opportunities
- System classification: pastoral, agro-pastoral, mixed
- Trends in smallholder livestock production
- **Case Study**: Dairy cooperatives in Kenya

Module 2: Climate-Smart Livestock Production

- Climate risks affecting livestock
- Mitigation strategies in livestock management
- Adaptation approaches for different zones
- Drought-resilient breeds and forages
- Role of climate data in livestock decisions
- **Case Study**: Climate adaptation in Sahel goat systems

Module 3: Livestock-Crop Integration

- Benefits of integrated systems
- Resource cycling and manure use
- Seasonal planning for integration
- Feed-fodder crop selection
- Labor sharing in mixed systems
- **Case Study**: Ethiopia's integrated dairy-maize model

Module 4: Animal Nutrition and Feed Management

- Feed types and nutritional requirements
- Feed formulation and ration balancing
- Forage production and conservation
- Crop residues and agro-industrial by-products
- Water management in livestock nutrition
- **Case Study**: Silage adoption by Ugandan farmers

Module 5: Animal Health and Disease Management

- Common livestock diseases and symptoms
- Vaccination schedules and control measures
- Ethno-veterinary practices
- Role of community animal health workers
- Disease surveillance and biosecurity
- **Case Study**: Rinderpest eradication success

Module 6: Livestock Breeding and Genetics

- Selective breeding principles
- Indigenous vs. exotic breeds
- Artificial insemination techniques
- Breed improvement strategies
- Crossbreeding for resilience
- **Case Study**: Improved dual-purpose goats in India

Module 7: Digital Technologies in Livestock Management

- Mobile-based livestock apps
- RFID and livestock tracking
- Digital extension and e-vet services
- Market information systems
- Data collection and analytics tools
- **Case Study**: iCow app in Kenya

Module 8: Gender and Youth in Livestock Systems

- Gender roles in livestock activities
- Empowering women in decision-making
- Youth engagement in modern livestock systems
- Addressing barriers to access and ownership
- Gender-sensitive extension services
- **Case Study**: Heifer International's youth livestock clubs

Module 9: Value Chain Development and Market Access

- Mapping the livestock value chain

- Quality standards and grading
- Collective marketing and cooperatives
- Access to finance and insurance
- Public-private partnerships in value chains
- **Case Study**: Tanzania's beef value chain

Module 10: Livestock Waste Management and Environmental Impact

- Environmental risks from waste mismanagement
- Biogas and organic manure production
- Waste-to-feed innovations
- Sustainable manure handling
- Policies and regulations
- **Case Study**: Manure composting by peri-urban pig farmers

Module 11: Risk Management and Disaster Preparedness

- Risk identification in livestock systems
- Early warning systems
- Livestock insurance mechanisms
- Emergency feeding and shelter
- Drought and flood response
- **Case Study**: Index-based livestock insurance in Kenya

Module 12: Business Planning and Livestock Agribusiness Models

- Livestock business planning basics
- Financial literacy and record keeping
- Cost-benefit analysis
- Scaling up smallholder businesses
- Entrepreneurial mindset for farmers
- **Case Study**: Poultry value chain in Ghana

Module 13: Policies, Institutions, and Extension Services

- National livestock policies
- Role of producer organizations
- Public-private collaboration
- Extension strategies and ICTs
- Institutional capacity building
- **Case Study**: Rwanda's Girinka (One Cow per Poor Family) policy

Module 14: Innovations in Livestock Products and Processing

- Milk and meat value addition
- Packaging and preservation techniques
- Livestock product diversification
- Food safety and traceability
- Innovations in local processing units
- **Case Study**: Women-led camel milk processing in Somalia

Module 15: Monitoring, Evaluation, and Learning (MEL)

- MEL frameworks for livestock programs
- Indicators for production and impact
- Tools for data collection

- Learning loops and adaptation
- Participatory M&E
- **Case Study**: Outcome mapping in pastoral resilience programs

Training Methodology

- Participatory lectures and presentations
- Group discussions and peer learning
- Hands-on practical exercises
- Field visits and demonstration sites
- Real-life case studies and success stories
- Simulation and scenario planning

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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