Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

VETERINARY AND ANIMAL SCIENCE

Digital Tools in Livestock Production Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

Digital Tools in Livestock Production Training Course

Veterinary and Animal Science • 5 Days Intensive • Accredited Certification

Course Overview

Digital Tools in Livestock Production training course is designed to equip modern livestock farmers, veterinarians, and agripreneurs with cutting-edge digital technologies that optimize productivity, enhance animal health, and drive sustainable livestock management.

Key Skills & Software Tools Covered

Farm data management • livestock tracking • digital recordkeeping • performance analysis

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
5 Jan 2026 – 9 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Accra	Classroom / 5d	**$4,000 USD / KES 110,000**
12 Jan 2026 – 16 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
12 Jan 2026 – 16 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
12 Jan 2026 – 16 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Digital Tools in Livestock Production Training Course

Introduction

Digital Tools in Livestock Production training course is designed to equip modern livestock farmers, veterinarians, and agripreneurs with cutting-edge digital technologies that optimize productivity, enhance animal health, and drive sustainable livestock management. With the increasing adoption of IoT in agriculture, precision livestock farming, and AI-driven monitoring systems, the livestock sector is witnessing transformative growth. Participants will gain hands-on experience with data analytics, smart sensors, and mobile livestock management apps to make informed decisions that maximize efficiency and profitability.

In today's competitive agricultural landscape, leveraging digital innovation, blockchain for traceability, and remote monitoring solutions is essential. This course emphasizes practical applications of cloud-based livestock management software, automated feeding systems, and predictive analytics to ensure optimal herd health, reduce operational costs, and increase overall farm sustainability. Through interactive sessions, case studies, and live demonstrations, learners will be prepared to integrate digital tools into everyday livestock operations effectively.

Course Duration

5 days

Course Objectives

- Understand digital transformation in livestock production.
- Apply precision livestock farming technologies for efficiency.
- Integrate IoT sensors for real-time monitoring of animal health.
- Utilize AI and machine learning for predictive livestock management.
- Implement cloud-based farm management systems.
- Leverage mobile applications for herd tracking and record-keeping.
- Adopt automated feeding and watering systems for productivity.
- Apply data-driven decision-making in livestock operations.
- Use blockchain technology for traceability and supply chain transparency.
- Optimize sustainable livestock practices using digital tools.
- Analyze livestock production metrics for cost reduction.
- Enhance animal welfare through remote health monitoring.
- Develop strategies for agri-tech integration in commercial farming.

Target Audience

- Livestock farmers and farm owners
- Veterinarians and animal health professionals
- Agripreneurs and startup founders in agri-tech
- Agriculture extension officers
- Dairy farm managers and poultry farmers
- Livestock production consultants
- Researchers in animal husbandry and agricultural technology
- Students of veterinary and agricultural sciences

Course Modules

Module 1: Introduction to Digital Livestock Technologies

- Overview of digital transformation in agriculture
- Trends in precision livestock farming
- Importance of data-driven farm management
- Case Study: IoT-enabled dairy farm in Europe
- Tools: Mobile farm management apps

Module 2: IoT and Sensor-Based Monitoring

- Real-time animal health tracking
- Environmental monitoring for barns and pastures
- Wearable sensors for livestock
- Case Study: Smart collars in cattle farms
- Benefits of predictive analytics for herd management

Module 3: AI and Machine Learning Applications

- Predictive health diagnostics
- AI-based feed optimization
- Automated breeding decision tools
- Case Study: AI in poultry mortality prediction
- Enhancing productivity through machine learning

Module 4: Cloud-Based Livestock Management Systems

- Farm management software features
- Data integration and cloud analytics
- Remote monitoring dashboards
- Case Study: Cloud system adoption in goat farming
- Cost-benefit analysis of digital farm platforms

Module 5: Mobile Applications for Livestock Management

- Herd tracking and digital record keeping
- Milk yield and production monitoring
- Veterinary care reminders
- Case Study: Mobile app usage in large-scale dairy farms
- Benefits of on-the-go livestock management

Module 6: Automated Feeding and Watering Systems

- Types of automated feeders
- Water management optimization
- Integration with sensor data for precision feeding
- Case Study: Automated feeding in pig farms
- Reducing operational labor costs

Module 7: Blockchain and Traceability in Livestock

- Supply chain transparency using blockchain
- Digital certification of animal products
- Tracking feed and medication history
- Case Study: Blockchain in organic meat certification
- Enhancing consumer trust through transparency

Module 8: Data Analytics and Decision-Making

- Performance metrics analysis
- Profitability and cost reduction strategies
- Predictive modeling for herd growth
- Case Study: Data-driven dairy farm expansion plan
- Using KPIs for sustainable livestock operations

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@datastatresearch.org or call +254724527104

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 DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/digital-tools-in-livestock-production-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.