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

AGRICULTURE

Training Course on Agroecology Principles and Practice for Resilient Farming

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

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Training Course on Agroecology Principles and Practice for Resilient Farming

Agriculture • 5 Days Intensive • Accredited Certification

Course Overview

Training Course on Agroecology Principles and Practice for Resilient Farming is designed to equip farmers, practitioners, and stakeholders with the knowledge, tools, and strategies needed to transition toward agroecological systems that enhance biodiversity, soil health, food sovereignty, and climate resilience.

Key Skills & Software Tools Covered

Agroecology • Sustainable Farming • Soil Health • Resilience Strategies

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 90,000**
5 Jan 2026 – 9 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Accra	Classroom / 5d	**$4,000 USD / KES 90,000**
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 90,000**
12 Jan 2026 – 16 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**

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

Course Curriculum & Modules

Training Course on Agroecology Principles and Practice for Resilient Farming

Introduction

Agroecology is a transformative and sustainable approach to farming that integrates ecological principles with modern agricultural practices. As climate change, food insecurity, and environmental degradation increasingly threaten global food systems, agroecology offers a pathway toward resilient farming and regenerative land management. Training Course on Agroecology Principles and Practice for Resilient Farming is designed to equip farmers, practitioners, and stakeholders with the knowledge, tools, and strategies needed to transition toward agroecological systems that enhance biodiversity, soil health, food sovereignty, and climate resilience.

By exploring cutting-edge agroecological innovations, community-based farming models, and regenerative agriculture practices, this course empowers participants to implement sustainable farming systems adapted to local realities. Emphasis is placed on systems thinking, circular resource use, ecological balance, and inclusive knowledge co-creation, ensuring practical application and long-term sustainability.

Learning Objectives

- **Understand the core principles of agroecology and their real-world application.**

- **Analyze the interrelationship between biodiversity, soil health, and ecosystem services.**
- **Implement climate-smart agriculture and adaptive techniques for resilient farming.**
- **Apply regenerative agriculture practices to restore degraded land and enhance productivity.**
- **Design and manage integrated farming systems for ecological balance and economic viability.**
- **Utilize organic inputs and composting to reduce dependency on synthetic chemicals.**
- **Enhance water use efficiency and soil moisture retention through agroecological methods.**
- **Promote seed sovereignty and the use of indigenous crop varieties.**
- **Strengthen farmer-led innovations and participatory knowledge exchange.**
- **Evaluate market access strategies for agroecological products.**
- **Explore agroecology and gender roles in inclusive sustainable agriculture.**
- **Interpret policy frameworks that support agroecological transitions.**
- **Develop community-based agroecological action plans for implementation.**

Target Audience

- **Smallholder Farmers**
- **Agricultural Extension Officers**
- **Agribusiness Entrepreneurs**
- **Climate Change Practitioners**
- **NGOs and Community Leaders**
- **Policy Makers and Government Planners**
- **Agroecology Researchers and Academics**
- **Students of Agricultural Sciences**

Course Duration: 5 days

Course Modules

Module 1: Introduction to Agroecology and Sustainability

- Definition and history of agroecology
- Key principles and benefits of agroecological systems
- Agroecology vs. conventional agriculture
- Sustainable farming and SDGs
- Agroecology as a response to climate change
- Case Study: Cuban agroecological revolution post-1990s food crisis

Module 2: Soil Health and Agroecological Practices

- Soil biology and fertility in agroecosystems
- Natural nutrient cycling
- Organic matter management and composting
- Biofertilizers and cover crops
- Preventing soil erosion and degradation
- Case Study: Regeneration of soils in Ethiopia through agroecological land use

Module 3: Biodiversity and Ecosystem Services

- Importance of crop diversity and polycultures
- Enhancing beneficial insects and pest control
- Creating agroforestry systems
- Ecological interactions in farming
- Conservation of native species
- Case Study: Biodiverse home gardens in Nepal for resilient livelihoods

Module 4: Climate Resilience and Agroecology

- Agroecology as climate adaptation strategy
- Carbon sequestration and greenhouse gas reduction
- Building drought and flood-resilient systems

- Climate-resilient crop choices
- Early warning and risk reduction tools
- Case Study: Climate-resilient agroecological zones in Kenya’s drylands

Module 5: Agroecological Livelihoods and Marketing

- Local economies and value addition
- Accessing organic and fair trade markets
- Branding agroecological products
- Farm-to-table supply chains
- Building cooperatives and farmer networks
- Case Study: Farmer cooperatives in Brazil's agroecology movement

Module 6: Gender, Equity, and Indigenous Knowledge

- Women’s roles in agroecological transitions
- Gender-sensitive agroecological planning
- Indigenous knowledge systems
- Intergenerational knowledge transfer
- Inclusive leadership in food systems
- Case Study: Maasai women-led agroecology groups in Tanzania

Module 7: Participatory Learning and Farmer Innovation

- Farmer field schools and co-learning
- Participatory research and experimentation
- Peer-to-peer agroecological extension
- Indigenous technologies and innovation
- Building community seed banks
- Case Study: Farmer-led innovation platforms in India

Module 8: Policy, Advocacy, and Agroecological Governance

- Global agroecology frameworks (FAO, UN)
- Agroecological policies in Africa and Latin America
- Advocating for land and food rights
- Integrating agroecology in national agricultural plans
- Funding and investment opportunities
- Case Study: Senegal’s agroecology national policy initiative

Training Methodology

- Participatory workshops and group discussions
- Field demonstrations and hands-on activities
- Multimedia presentations and expert talks
- Case study analysis and role-playing
- Reflective journaling and peer learning
- Action plan development and mentorship

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/training-course-on-agroecology-principles-and-practice-for-resilient-farming 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.