Training Course on Nursery Management for Quality Seedlings

Professional Development Training Course Outline

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

Course Introduction

The production of high-quality seedlings is a critical pillar in sustainable agriculture, climate-smart farming, and agribusiness development. Effective nursery management enhances crop productivity, ensures disease-free planting material, and accelerates the adoption of improved crop varieties. With increasing demand for resilient and high-yielding crops, proper nursery techniques are becoming essential for farmers, agripreneurs, and agricultural extension officers alike. Training Course on Nursery Management for Quality Seedlings is designed to empower stakeholders with actionable skills, knowledge, and innovative tools for propagation, soil preparation, irrigation, pest control, and nursery business models.

This hands-on training integrates real-life case studies, best practices, and interactive learning to equip participants with techniques in seed selection, propagation media, disease control, and sustainable seedling production systems. By the end of this training, learners will be competent in implementing and managing nurseries that meet commercial and ecological demands. The course also focuses on the integration of digital tools, organic techniques, and climate-smart innovations to promote high-quality nursery systems.

Programme Curriculum

Training Course on Nursery Management for Quality Seedlings

Introduction

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Course Objectives

1. Understand the principles of quality seedling production
2. Identify best practices in seed selection and treatment
3. Learn soil sterilization and media preparation techniques
4. Master modern propagation techniques and tools
5. Apply integrated pest and disease management (IPDM) in nurseries
6. Explore effective nursery layout and design
7. Manage irrigation systems and water conservation techniques
8. Adopt organic practices in seedling nurseries
9. Utilize climate-smart nursery management strategies
10. Establish sustainable nursery business models
11. Apply record keeping and inventory management for nurseries
12. Integrate digital tools for nursery monitoring and control
13. Analyze and implement nursery-based income-generating models

Target Audiences

1. Smallholder farmers
2. Agribusiness entrepreneurs
3. Agricultural extension officers
4. Agroforestry project managers
5. Horticulture producers
6. Cooperatives and youth groups
7. Community-based organizations (CBOs)
8. Students and researchers in agriculture

Course Duration: 5 days

Course Modules

Module 1: Introduction to Nursery Management

- Importance of nurseries in crop production
- Nursery types: temporary vs permanent
- Lifecycle of seedling development
- Principles of high-quality seedling production
- Site selection and environmental requirements
- **Case Study**: Community-managed nursery project in Kenya

Module 2: Seed and Propagation Material

- Selection of high-quality seeds and planting material
- Seed viability testing and treatment
- Vegetative vs seed propagation
- Importance of certified seeds
- Storage and pre-sowing practices

- **Case Study**: Tomato seedling propagation using certified seeds

Module 3: Soil and Media Preparation

- Characteristics of ideal propagation media
- Soil sterilization techniques (solarization, steaming)
- Mixing ratios: sand, loam, compost, coco peat
- Use of biodegradable pots and trays
- Media nutrient enrichment techniques
- **Case Study**: Coconut husk substrate for nursery use

Module 4: Nursery Design and Layout

- Nursery bed preparation and design
- Shading, windbreaks, and drainage systems
- Space optimization techniques
- Disease-free zones and seedling hardening areas
- Sustainable construction materials
- **Case Study**: Low-cost greenhouse nursery in Uganda

Module 5: Irrigation and Fertilization

- Types of irrigation systems (drip, sprinkler, manual)
- Water scheduling and moisture monitoring
- Fertilizer application: organic vs inorganic
- pH and EC monitoring tools
- Wastewater reuse in nurseries
- **Case Study**: Drip irrigation for seedling nurseries in India

Module 6: Pest and Disease Management

- Common nursery pests and diseases
- Preventive and curative measures
- Integrated Pest Management (IPM) practices
- Use of biopesticides and organic treatments
- Hygiene and sanitation practices
- **Case Study**: Organic pest control in vegetable nurseries

Module 7: Business and Record-Keeping

- Nursery business planning and marketing
- Cost-benefit analysis
- Record keeping for inventory and sales
- Branding and packaging seedlings
- Building customer relationships
- **Case Study**: Urban nursery enterprise by youth group in Nigeria

Module 8: Innovations and Sustainability

- Use of mobile apps and IoT in nursery management
- Renewable energy solutions (solar pumps, LED lighting)
- Climate-smart nursery practices
- Waste management and recycling
- Participatory community nursery models
- **Case Study**: Digital monitoring of tree nurseries in Rwanda

Training Methodology

- Hands-on practical demonstrations
- Case study analysis and group discussions
- Interactive PowerPoint presentations
- Field visits to model nurseries
- Participant-led seedling projects
- Post-training mentorship and follow-up

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
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

Start Date	End Date	Location	Price
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