Urban Agriculture and Food Security Training Course

Professional Development Training Course Outline

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

Course Introduction

In an era of rapid urbanization and escalating climate challenges, ensuring food security for growing urban populations is a critical global imperative. Urban Agriculture and Food Security Training Course is meticulously designed to address this pressing need, providing participants with the knowledge and practical skills to transform urban spaces into productive, resilient food systems. This program delves into cutting-edge sustainable agriculture practices, from innovative vertical farming and hydroponics to community-centric food initiatives, empowering individuals to create sustainable, localized food economies. By integrating technology, ecological principles, and social innovation, this course offers a holistic approach to building a more food-secure and environmentally conscious future for cities.

This comprehensive training course is an essential resource for professionals and community leaders seeking to drive change in their local food systems. Participants will explore the interconnected dimensions of urban food security, including policy frameworks, economic viability, and community engagement. Through a blend of theoretical instruction and practical case studies, the course bridges the gap between traditional agricultural knowledge and urban development. It equips attendees with the tools to design, implement, and manage profitable and impactful urban farming projects, fostering community resilience, improving public health, and reducing the carbon footprint associated with long-distance food transport. This program is your guide to becoming a pioneer in the global movement toward resilient, sustainable urban food systems.

Programme Curriculum

Urban Agriculture and Food Security Training Course

Introduction

In an era of rapid urbanization and escalating climate challenges, ensuring food security for growing urban populations is a critical global imperative. Urban Agriculture and Food Security Training Course is meticulously designed to address this pressing need, providing participants with the knowledge and practical skills to transform urban spaces into productive, resilient food systems. This program delves into cutting-edge sustainable agriculture practices, from innovative vertical farming and hydroponics to community-centric food initiatives, empowering individuals to create sustainable, localized food economies. By integrating technology, ecological principles, and social innovation, this course offers a holistic approach to building a more food-secure and environmentally conscious future for cities.

This comprehensive training course is an essential resource for professionals and community leaders seeking to drive change in their local food systems. Participants will explore the interconnected dimensions of urban food security, including policy frameworks, economic viability, and community engagement. Through a blend of theoretical instruction and practical case studies, the course bridges the gap between traditional agricultural knowledge and urban development. It equips attendees with the tools to design, implement, and manage profitable and impactful urban farming projects, fostering community resilience, improving public health, and reducing the carbon footprint associated with long-distance food transport. This program is your guide to becoming a pioneer in the global movement toward resilient, sustainable urban food systems.

Course Duration

5 days

Course Objectives

1. Master sustainable urban farming techniques, including permaculture, aquaponics, and soilless cultivation.
2. Learn to design integrated urban food systems that optimize resource use and circular economy principles.
3. Understand the role of urban agriculture in enhancing local food security and building resilient communities.
4. Apply cutting-edge agri-tech, including IoT sensors, automation, and data analytics, for precision urban farming.
5. Analyze policies and regulations that support the integration of urban agriculture into city planning and development.
6. Implement strategies for soil remediation, nutrient management, and improving urban biodiversity.
7. Develop viable business plans for urban agriculture ventures, from farm-to-table to community-supported agriculture (CSA).
8. Gain practical skills in designing and managing vertical farms and productive rooftop gardens.
9. Employ efficient water management techniques, such as rainwater harvesting and drip irrigation, to conserve resources.
10. Explore climate-smart practices to adapt urban food production to climate change impacts.
11. Lead initiatives that promote social equity and provide equitable access to fresh, nutritious food.
12. Learn best practices for harvesting, storage, processing, and adding value to urban-grown produce.
13. Utilize digital marketing and storytelling to build a brand and connect with conscious consumers.

Organizational Benefits

- Organizations can leverage urban agriculture projects to demonstrate a commitment to corporate social responsibility and environmental stewardship.

- Fosters a culture of innovation and provides employees with skills in a rapidly growing and future-focused sector.
- Strengthens relationships with local communities and stakeholders through collaborative food initiatives.
- Creates a more localized and resilient food supply chain, reducing dependency on external and vulnerable sources.
- Opens doors for new business models and revenue generation through sustainable food production.

Target Audience

1. Urban Planners & City Officials.
2. Aspiring Urban Farmers & Entrepreneurs.
3. Community Leaders & Activists.
4. Environmental Advocates & Sustainability Officers.
5. Public Health Professionals.
6. Landscape Architects & Designers.
7. Educators & Non-Profit Staff.
8. Real Estate Developers.

Course Outline

Module 1: Foundations of Urban Agriculture & Food Security

- Defining Urban Agriculture: History, principles, and global context.
- The State of Urban Food Systems and Food Insecurity.
- Environmental and Social Benefits of Urban Farming.
- Exploring diverse urban agriculture models
- **Case Study:** The rise of rooftop farming in New York City and its impact on food access.

Module 2: Sustainable Urban Farming Techniques

- Mastering Soilless Agriculture: Hydroponics, aquaponics, and aeroponics.
- Designing and Implementing Vertical Farming Systems.
- Permaculture Principles for Urban Environments.
- Composting, Vermiculture, and Waste-to-Resource Management.
- **Case Study:** The application of vertical farming technology in a Singapore skyscraper.

Module 3: Urban Planning and Policy

- Integrating Urban Agriculture into City Master Plans.
- Navigating Zoning, Land Use, and Regulatory Frameworks.
- Policy Levers for Supporting Urban Food Production.
- Accessing Land and Resources for Urban Farming Initiatives.
- **Case Study:** Analyzing policy changes that enabled urban farming in Detroit, Michigan.

Module 4: Business Models and Agribusiness

- Developing a Viable Business Plan for an Urban Farm.
- Analyzing Revenue Streams: Farm-to-Table, CSA, and Farmers' Markets.
- Securing Funding, Grants, and Investment for Urban Ag Projects.
- Marketing and Branding for Local Food Products.
- **Case Study:** The business journey of a successful urban farm-to-table restaurant.

Module 5: Agri-Tech & Smart Farming

- Introduction to Internet of Things (IoT) in Agriculture.
- Using Sensors and Automation for Precision Farming.
- Data Analytics for Crop Management and Yield Optimization.
- Integrating Renewable Energy Sources in Urban Farms.
- **Case Study:** How a Japanese urban farm uses AI and robotics for automated production.

Module 6: Community Engagement & Social Equity

- Building and Managing Thriving Community Gardens.
- Strategies for Community Outreach and Education.
- Addressing Food Deserts and Promoting Food Justice.
- Developing and Leading Volunteer Programs.
- **Case Study:** A community-led garden initiative that transformed a food desert in a low-income neighborhood.

Module 7: Water, Energy, and Soil Management

- Water Conservation Techniques: Drip irrigation, rainwater harvesting.
- Managing Soil Contamination in Urban Environments.
- Energy Efficiency and Climate-Smart Practices.
- Integrated Pest Management (IPM) for Urban Farms.
- **Case Study:** A project in a dry climate that uses a closed-loop system for water and nutrient recycling.

Module 8: Post-Harvest & Value Addition

- Best Practices for Harvesting and Post-Harvest Handling.
- Safe Food Handling and Food Safety Regulations.
- Processing and Value-Added Products (e.g., preserves, dried herbs).
- Supply Chain Logistics for Urban Food Systems.
- **Case Study:** A community food hub that processes and distributes produce from local urban farms.

Training Methodology

The course employs a highly interactive and practical training methodology that combines theoretical knowledge with hands-on application:

- Interactive Lectures and Workshops.
- Practical Case Studies.
- Group Discussions and Collaborative Projects.
- Hands-on Demonstrations (where applicable).
- Q&A and Expert Panels.

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
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