Urban Biodiversity and Green Spaces Training Course

Professional Development Training Course Outline

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

Course Introduction

Urban Biodiversity and Green Spaces Training Course offers a comprehensive and **practical** exploration of **urban biodiversity** and the strategic development of **green spaces** in cities. As global populations urbanize at an unprecedented rate, the preservation and enhancement of nature within built environments are no longer a luxury, but a necessity. This program provides **actionable knowledge** and **innovative strategies** to address critical urban challenges like climate change, pollution, and public health. We'll delve into the science of urban ecology, the economic and social benefits of nature-based solutions, and the practical application of green infrastructure. By mastering the concepts in this course, participants will be empowered to become **change agents** for more resilient, livable, and **sustainable cities**.

This training goes beyond theory, focusing on **real-world applications** and **community engagement**. You'll learn to design and implement projects that create **ecological connectivity**, enhance **ecosystem services**, and foster **social cohesion** within urban landscapes. The curriculum is designed to equip you with the **tools and techniques** to effectively plan, manage, and advocate for green spaces, transforming urban gray into vibrant, flourishing green. Join us to unlock the potential of nature in the city and drive positive, **environmental impact** for future generations

Programme Curriculum

Urban Biodiversity and Green Spaces Training Course

Introduction

Urban Biodiversity and Green Spaces Training Course offers a comprehensive and **practical** exploration of **urban biodiversity** and the strategic development of **green spaces** in cities. As global populations urbanize at

an unprecedented rate, the preservation and enhancement of nature within built environments are no longer a luxury, but a necessity. This program provides **actionable knowledge** and **innovative strategies** to address critical urban challenges like climate change, pollution, and public health. We'll delve into the science of urban ecology, the economic and social benefits of nature-based solutions, and the practical application of green infrastructure. By mastering the concepts in this course, participants will be empowered to become **change agents** for more resilient, livable, and **sustainable cities**.

This training goes beyond theory, focusing on **real-world applications** and **community engagement**. You'll learn to design and implement projects that create **ecological connectivity**, enhance **ecosystem services**, and foster **social cohesion** within urban landscapes. The curriculum is designed to equip you with the **tools and techniques** to effectively plan, manage, and advocate for green spaces, transforming urban gray into vibrant, flourishing green. Join us to unlock the potential of nature in the city and drive positive, **environmental impact** for future generations.

Course Duration

10 days

Course Objectives

1. Analyze the interdependence of urban ecosystems and human well-being.
2. Evaluate the ecosystem services provided by urban green infrastructure.
3. Develop and implement nature-based solutions for urban challenges.
4. Design and manage green corridors and wildlife habitats.
5. Utilize GIS and other digital tools for urban green space planning.
6. Assess the economic value of urban biodiversity and green spaces.
7. Engage diverse stakeholders in biodiversity conservation initiatives.
8. Formulate policies for sustainable urban development.
9. Implement citizen science programs for data collection and monitoring.
10. Apply restoration ecology principles to urban environments.
11. Measure and report on biodiversity indicators for urban areas.
12. Mitigate the urban heat island effect through strategic greening.
13. Promote biophilic urbanism to improve public health and mental wellness.

Organizational Benefits

- Enhancing biodiversity in urban spaces demonstrates a commitment to environmental stewardship, which attracts and retains top talent.
- Nature-based solutions can reduce costs associated with stormwater management, energy consumption for cooling, and air filtration.
- Creating biodiverse green spaces at or near workplaces can boost employee morale, productivity, and mental health.
- Investing in green infrastructure helps build resilience against the impacts of climate change, such as flooding and extreme heat.
- Organizations that champion urban biodiversity are seen as industry leaders in sustainability and future-focused innovation.

Target Audience

- Urban Planners and Architects.
- Environmental Managers and Conservationists.

- Landscape Architects and Designers.
- Local Government Officials.
- Real Estate Developers.
- CSR and Sustainability Professionals.
- Community Leaders and Activists.
- Educators and Researchers.

Course Modules

Module 1: The Foundations of Urban Biodiversity

- What is urban biodiversity and why is it important?
- The concept of the urban ecosystem and its components.
- The role of native vs. non-native species in urban environments.
- Identifying key **biodiversity hotspots** within cities.
- **Case Study**: **Singapore's Biophilic City** - An analysis of how a city-state integrated nature into its core planning.

Module 2: Green Infrastructure and Ecosystem Services

- Understanding **green infrastructure** as a strategic network.
- **Ecosystem services** provided by urban nature (e.g., air and water purification).
- Quantifying the value of these services for policy and planning.
- Examining the link between green spaces and public health.
- **Case Study**: **The New York City Green Infrastructure Plan** - Exploring its success in stormwater management and climate resilience.

Module 3: Urban Greening and Design Principles

- Principles of **biophilic design** and its application in architecture.
- Designing and implementing **green roofs**, **living walls**, and vertical gardens.
- Creating **wildlife corridors** and habitats in fragmented landscapes.
- Choosing the right plant species for urban survival and ecological function.
- **Case Study**: **The High Line, New York** - A look at how an abandoned railway was transformed into a biodiverse public park.

Module 4: Urban Soil Ecology and Water Management

- The importance of **healthy urban soils** for plant life and ecosystem function.
- Implementing **sustainable urban drainage systems (SUDS)**.
- Managing urban stormwater through **rain gardens** and permeable surfaces.
- The role of urban trees in water retention and air quality.
- **Case Study**: **The Portland, Oregon Green Streets Program** - Analyzing a city-wide initiative for sustainable stormwater management.

Module 5: Citizen Science and Community Engagement

- Developing and managing successful **citizen science** projects.
- Using platforms like iNaturalist and eBird for data collection.
- Strategies for effective community outreach and participation.
- Building partnerships with local organizations and volunteers.

- **Case Study**: **The Bee Line Project, London** - A community-led initiative to create a network of pollinator-friendly habitats.

Module 6: Policy, Planning, and Governance

- Integrating biodiversity targets into local and national urban policies.
- The role of **zoning regulations** and urban planning in green space protection.
- Funding mechanisms for urban greening projects.
- Navigating stakeholder conflicts and building consensus.
- **Case Study**: **The Curitiba, Brazil Urban Planning Model** - How a city used policy to create an integrated public transport and green space system.

Module 7: Economic Valuation of Urban Nature

- Methods for assigning economic value to ecosystem services.
- Cost-benefit analysis of green infrastructure projects.
- The link between urban green spaces and property values.
- Exploring the concept of a **green economy** and urban jobs.
- **Case Study**: **The Seattle Urban Forest Program** - Evaluating the economic benefits of a city's tree canopy.

Module 8: Restoring and Rewilding Urban Landscapes

- Principles of **ecological restoration** in urban contexts.
- Techniques for creating new habitats and restoring degraded sites.
- The concept of **urban rewilding** and its practical application.
- Managing wildlife populations in a human-dominated environment.
- **Case Study**: **The Sihl River Rewilding, Zurich** - Examining a large-scale project to restore a river through an urban area.

Module 9: Climate Change Adaptation and Mitigation

- Urban biodiversity as a tool for **climate change adaptation**.
- The role of green spaces in mitigating the **urban heat island effect**.
- Carbon sequestration in urban forests and green spaces.
- Planning for climate-resilient urban ecosystems.
- **Case Study**: **The Rotterdam Green City Strategy** - Analyzing how a city used green roofs and public spaces to adapt to rising sea levels.

Module 10: Urban Agriculture and Food Systems

- Exploring the link between **urban agriculture** and biodiversity.
- Designing and managing community gardens and urban farms.
- The role of pollinator habitats in urban food production.
- Integrating food security into urban green space planning.
- **Case Study**: **The Detroit Urban Farming Movement** - How communities used vacant land to create a vibrant urban food system.

Module 11: Monitoring and Evaluation

- Developing a **biodiversity monitoring framework**.
- Using technology for environmental data collection and analysis.

- Assessing the social and ecological impact of greening projects.
- Reporting on project outcomes and communicating success to stakeholders.
- **Case Study**: **The Singapore Index on Cities' Biodiversity** - A look at a global framework for measuring urban biodiversity.

Module 12: Communication and Advocacy

- Communicating the value of urban biodiversity to diverse audiences.
- Effective storytelling for environmental advocacy.
- Using social media and digital platforms to promote greening initiatives.
- Building a personal brand as a **biodiversity champion**.
- **Case Study**: **The Pollinator Pathway, Seattle** - A successful public awareness and advocacy campaign.

Module 13: Green Space Equity and Environmental Justice

- Addressing disparities in access to quality green spaces.
- Integrating **environmental justice** principles into urban planning.
- Designing inclusive and accessible public spaces.
- Engaging marginalized communities in greening projects.
- **Case Study**: **The Atlanta BeltLine** - Analyzing its impact on gentrification and community equity.

Module 14: Funding and Project Management

- Identifying funding sources for urban biodiversity projects.
- Writing effective grant proposals and business cases.
- Principles of project management for green infrastructure.
- Budgeting and resource allocation for long-term project success.
- **Case Study**: **The City of Malm??'s Green Space Strategy** - Exploring how public-private partnerships funded a city-wide greening plan.

Module 15: The Future of Urban Biodiversity

- Emerging trends in urban ecology and planning.
- The role of AI and big data in managing urban ecosystems.
- Building **resilient and regenerative cities**.
- The future of the **biophilic city concept**.
- **Case Study**: **The Living Building Challenge** - Examining a framework for creating high-performance, regenerative buildings and communities.

Training Methodology

This course uses a blended training methodology that combines theoretical knowledge with practical, hands-on application. The approach includes:

- Interactive Lectures.
- Case Studies.
- Hands-on Workshops.
- Guest Speakers.
- Group Projects.
- Field Visits
- Digital Tools.

- Peer Review and Feedback.

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
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

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com