Green Infrastructure Planning Training Course

Professional Development Training Course Outline

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

Course Introduction

Green Infrastructure Planning Training Course is designed to build expertise in sustainable urban development, climate resilience, nature-based solutions, ecosystem restoration, and smart environmental planning. As cities face increasing challenges from climate change, urban flooding, biodiversity loss, heat stress, and rapid urbanization, green infrastructure has become a strategic approach for creating healthy, resilient, low-carbon, and sustainable communities. This training equips participants with advanced knowledge of green networks, ecological planning, sustainable landscapes, urban resilience strategies, and environmental management frameworks aligned with global sustainability goals such as the UN Sustainable Development Goals (SDGs), ESG principles, and climate adaptation strategies.

The course provides practical skills in designing and implementing green infrastructure systems that integrate parks, forests, wetlands, green roofs, urban agriculture, blue-green corridors, and ecological restoration initiatives into urban and regional planning. Participants will explore innovative planning tools, GIS applications, ecosystem-based approaches, climate-smart solutions, and sustainable design methodologies through real-world case studies. By completing this training, professionals will gain the capability to develop impactful green city strategies, resilient infrastructure plans, and nature-positive development solutions for governments, organizations, and communities.

Programme Curriculum

Green Infrastructure Planning Training Course

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Course Duration

5 days

Course Objectives

1. Develop advanced understanding of green infrastructure planning frameworks and sustainable development strategies.
2. Apply nature-based solutions (NbS) for climate adaptation and environmental resilience.
3. Understand the role of ecosystem services assessment in urban and regional planning.
4. Build expertise in climate-resilient city planning and sustainable urban transformation.
5. Learn methods for designing blue-green infrastructure networks.
6. Develop skills in urban biodiversity conservation and ecological restoration planning.
7. Apply GIS, spatial analysis, and digital planning tools for green infrastructure projects.
8. Understand ESG, sustainability reporting, and environmental governance principles.
9. Design strategies for urban heat reduction and climate mitigation planning.
10. Improve knowledge of green corridors, landscape connectivity, and habitat restoration.
11. Evaluate the economic, social, and environmental benefits of green infrastructure investments.
12. Develop integrated approaches for smart cities and resilient communities.
13. Create practical green infrastructure action plans aligned with global sustainability targets.

Target Audience

1. Urban planners and city development professionals.
2. Landscape architects and environmental designers.
3. Civil engineers and infrastructure specialists.
4. Government officials and municipal planners.
5. Sustainability managers and ESG professionals.
6. Environmental consultants and conservation experts.
7. Real estate developers and smart city professionals.
8. Researchers, academics, and sustainability practitioners.

Course Modules

Module 1: Fundamentals of Green Infrastructure Planning

- Principles of **green infrastructure and sustainable development**
- Evolution of ecological planning approaches

- Benefits of nature-based urban solutions
- Green infrastructure components and systems
- Global trends in sustainable city planning
- **Case Study: Singapore Green Plan 2030**

Module 2: Climate Resilience and Nature-Based Solutions

- Climate change impacts on urban environments
- Designing climate-adaptive landscapes
- Flood management through natural systems
- Ecosystem-based adaptation approaches
- Resilient infrastructure planning strategies
- **Case Study: Copenhagen Cloudburst Management Plan**

Module 3: Urban Green Networks and Ecological Planning

- Green corridors and ecological connectivity
- Urban forests and biodiversity networks
- Habitat restoration techniques
- Landscape-scale planning methods
- Protecting ecosystem services
- **Case Study: Seoul Cheonggyecheon Restoration Project**

Module 4: Blue-Green Infrastructure Design

- Integration of water and vegetation systems
- Sustainable drainage solutions (SuDS)
- Wetland restoration planning
- Green roofs and urban cooling systems
- Water-sensitive urban design principles
- **Case Study: Rotterdam Water Square Project**

Module 5: GIS, Digital Tools, and Data-Driven Planning

- GIS applications in green infrastructure mapping
- Spatial analysis for environmental planning
- Remote sensing and urban monitoring
- Digital twins for sustainable cities
- Data-driven decision-making approaches
- **Case Study: Barcelona Urban Green Infrastructure Strategy**

Module 6: Sustainable Urban Development and Policy Frameworks

- Green infrastructure policies and governance
- ESG and sustainability frameworks
- SDG alignment and climate commitments
- Stakeholder engagement strategies
- Planning regulations and implementation models
- **Case Study: European Green Infrastructure Strategy**

Module 7: Implementation, Financing, and Project Management

- Green infrastructure project planning
- Cost-benefit analysis and investment models
- Public-private partnerships
- Monitoring and evaluation frameworks
- Long-term maintenance strategies
- **Case Study: New York City Green Infrastructure Program**

Module 8: Future Trends in Green Infrastructure Innovation

- Smart green cities and digital sustainability
- Carbon-neutral urban development
- Regenerative design approaches
- Climate-positive infrastructure solutions
- Future opportunities in sustainable planning
- **Case Study: Amsterdam Circular City Strategy**

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@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:

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