Landscape Integration in Architecture Training Course

Professional Development Training Course Outline

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

Course Introduction

Landscape Integration in Architecture is a rapidly evolving discipline that merges built environments with natural ecosystems, creating sustainable, climate-responsive, and aesthetically unified spaces. In today's era of green architecture, biophilic design, and regenerative urbanism, landscape is no longer an afterthought but a core architectural strategy. Landscape Integration in Architecture Training Course equips learners with advanced knowledge of site-responsive design, ecological planning, sustainable materials, and smart landscape systems that enhance both environmental performance and human experience.

The course focuses on developing expertise in landscape architecture integration, urban ecological design, sustainable site development, and climate-adaptive planning. Participants will explore how architecture interacts with terrain, vegetation, water systems, and microclimates to produce resilient and future-ready developments. With growing global emphasis on net-zero design, ESG compliance, and nature-based solutions, this course prepares professionals to design integrated landscapes that balance innovation, ecology, and functionality.

Programme Curriculum

Landscape Integration in Architecture Training Course

Introduction

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Course Duration

5 days

Course Objectives

1. Master Landscape Architecture Integration Strategies
2. Apply Biophilic Design Principles in Built Environments
3. Understand Climate-Responsive Site Planning Techniques
4. Develop skills in Sustainable Urban Landscape Design
5. Implement Green Infrastructure and Nature-Based Solutions (NBS)
6. Analyze Topography and Site Ecology for Design Optimization
7. Integrate Stormwater Management and Water-Sensitive Urban Design (WSUD)
8. Use GIS and Digital Landscape Modeling Tools
9. Design with Regenerative and Circular Landscape Systems
10. Enhance projects using Native Planting and Biodiversity Planning
11. Apply Smart Irrigation and Landscape Technology Systems
12. Align projects with LEED, BREEAM, and ESG Sustainability Standards
13. Create Human-Centric and Wellness-Oriented Outdoor Spaces

Target Audience

1. Architects and Design Professionals
2. Landscape Architects and Urban Designers
3. Civil Engineers and Site Planners
4. Real Estate Developers and Project Managers
5. Interior Designers expanding into exterior integration
6. Government Urban Planning Authorities
7. Sustainability Consultants and ESG Analysts
8. Architecture and Design Students

Course Modules with Case Studies

Module 1: Fundamentals of Landscape Integration in Architecture

- Principles of site-contextual design
- Relationship between built form and natural systems
- Landscape typologies in modern architecture
- Environmental impact assessment basics
- Introduction to biophilic integration
- **Case Study:** High Line Park, New York – adaptive reuse of urban infrastructure into green public space

Module 2: Site Analysis and Ecological Mapping

- Topography and slope analysis techniques
- Soil classification and land suitability
- Climate data interpretation for design
- Hydrological flow mapping
- Vegetation and ecosystem study
- **Case Study:** Singapore Gardens by the Bay – ecological zoning and climate-driven planning

Module 3: Biophilic Design and Human Wellbeing

- Psychological impact of nature in design
- Natural light, ventilation, and greenery integration
- Healing landscapes in architecture
- Sensory landscape design
- Wellness architecture principles
- **Case Study:** Khoo Teck Puat Hospital, Singapore – healing garden integration in healthcare design

Module 4: Sustainable Site Planning & Green Infrastructure

- Sustainable land-use strategies
- Green corridors and ecological networks
- Urban heat island mitigation
- Permeable surfaces and green pavements
- Carbon-neutral site design strategies
- **Case Study:** Hammarby Sjöstad, Stockholm – integrated sustainable urban district

Module 5: Water-Sensitive Urban Design (WSUD)

- Stormwater harvesting systems
- Rain gardens and bioswales
- Flood-resilient landscape design
- Greywater reuse systems
- Aquatic ecosystem integration
- **Case Study:** Bishan-Ang Mo Kio Park, Singapore – river naturalization project

Module 6: Smart Landscape Technologies

- GIS-based landscape planning
- IoT-enabled irrigation systems
- Smart sensors for soil and plant health
- Drone-based site monitoring
- AI-assisted landscape optimization
- **Case Study:** The Dubai Sustainable City – smart irrigation and eco-monitoring systems

Module 7: Planting Design & Biodiversity Enhancement

- Native and adaptive plant selection
- Seasonal planting strategies
- Urban biodiversity corridors
- Habitat creation in cities
- Low-maintenance ecological planting systems
- **Case Study:** Bosco Verticale, Milan – vertical forest biodiversity integration

Module 8: Master Planning & Integrated Landscape Architecture

- Large-scale urban landscape planning
- Mixed-use green development strategies
- Transit-oriented landscape design
- Public realm integration techniques
- Climate resilience in master planning
- **Case Study:** Masdar City, Abu Dhabi – zero-carbon master-planned eco-city

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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