Sustainable Landscape Design 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

Sustainable Landscape Design is a forward-thinking discipline that integrates ecological planning, climate resilience, biodiversity conservation, and green infrastructure development to create landscapes that are both functional and environmentally responsible. Sustainable Landscape Design Training Course is designed to equip learners with advanced skills in eco-friendly landscape architecture, water-sensitive urban design (WSUD), regenerative land use, and carbon-neutral outdoor planning. Participants will explore how to transform urban and rural spaces into resilient ecosystems that support both human wellbeing and environmental sustainability.

In today's era of climate change adaptation, smart cities development, ESG compliance, and sustainable urban regeneration, landscape professionals are expected to design spaces that reduce environmental impact while maximizing ecological value. This course blends theory with real-world applications such as green roofing systems, permaculture design, native plant landscaping, stormwater management, and climate-adaptive public spaces. Learners will gain hands-on expertise in designing landscapes that align with global sustainability goals such as UN SDGs, net-zero development, and regenerative design principles.

Programme Curriculum

Sustainable Landscape Design Training Course

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Course Duration

5 days

Course Objectives

1. Understand sustainable landscape architecture principles
2. Apply climate-resilient design strategies in outdoor spaces
3. Integrate biodiversity conservation techniques in planning
4. Develop skills in water-sensitive urban design (WSUD)
5. Design using native and drought-resistant plant systems
6. Implement green infrastructure and ecological corridors
7. Master carbon-neutral landscape planning approaches
8. Evaluate environmental impact assessment (EIA) methods
9. Apply regenerative landscape design principles
10. Utilize GIS and smart mapping for landscape planning
11. Design urban green spaces for climate adaptation
12. Promote sustainable soil and erosion control systems
13. Align projects with ESG and UN Sustainable Development Goals (SDGs)

Target Audience

1. Landscape Architects
2. Urban Planners
3. Civil Engineers
4. Environmental Scientists
5. Horticulturists and Botanists
6. Architecture Students
7. Government Urban Development Officers
8. Sustainability Consultants

Course Modules

Module 1: Foundations of Sustainable Landscape Design

- Principles of ecological design
- History of landscape sustainability
- Environmental ethics in design
- Introduction to ecosystem services
- Sustainable design frameworks

- **Case Study:** High Line Park, New York – adaptive reuse of urban infrastructure into green space

Module 2: Climate-Resilient Landscape Planning

- Climate adaptation strategies
- Heat island mitigation techniques
- Flood-resilient landscape design
- Wind and microclimate planning
- Risk-sensitive zoning
- **Case Study:** Rotterdam Climate Adaptive City Projects

Module 3: Water-Sensitive Urban Design (WSUD)

- Rainwater harvesting systems
- Sustainable drainage systems (SuDS)
- Wetland integration in cities
- Greywater reuse landscaping
- Stormwater modeling techniques
- **Case Study:** Melbourne Water-Sensitive Urban Design Initiative

Module 4: Biodiversity and Native Plant Systems

- Native plant selection strategies
- Habitat restoration techniques
- Pollinator-friendly landscapes
- Urban biodiversity enhancement
- Invasive species control
- **Case Study:** Singapore Gardens by the Bay ecosystem integration

Module 5: Green Infrastructure and Urban Ecology

- Green roofs and living walls
- Urban forestry systems
- Ecological corridors design
- Carbon sequestration landscapes
- Sustainable mobility landscapes
- **Case Study:** Chicago Green Roof Program

Module 6: Soil, Erosion, and Land Regeneration

- Soil conservation techniques
- Bioengineering for slope stabilization
- Regenerative soil systems
- Composting and organic restoration
- Land degradation reversal methods
- **Case Study:** Loess Plateau Restoration, China

Module 7: Smart Technology in Landscape Design

- GIS-based spatial planning
- Remote sensing applications
- AI in landscape modeling

- Smart irrigation systems
- Digital twin landscapes
- **Case Study:** Singapore Smart Nation Green Infrastructure Mapping

Module 8: Sustainable Urban Landscape Master Planning

- Master planning principles
- ESG-aligned landscape frameworks
- Community-driven green design
- Sustainable public space planning
- Long-term landscape maintenance strategies
- **Case Study:** Masdar City Sustainable Urban Development

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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