Sustainable Urban Development 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

Sustainable Urban Development is a transformative approach that integrates climate resilience, smart cities, green infrastructure, sustainable mobility, circular economy principles, and inclusive urban planning to create cities that are environmentally responsible, economically competitive, and socially equitable. With rapid urbanization, climate change impacts, resource constraints, and increasing demand for resilient communities, urban professionals need advanced knowledge and practical tools to design and manage future-ready cities. Sustainable Urban Development Training Course equips participants with strategic frameworks, innovative technologies, and global best practices for developing low-carbon, climate-smart, and people-centered urban environments.

Through international case studies, practical exercises, and applied learning approaches, participants will gain the expertise required to implement Net Zero cities, ESG-driven urban projects, nature-based solutions, and sustainable development initiatives aligned with global frameworks such as the UN Sustainable Development Goals (SDGs), New Urban Agenda, and climate action targets.

Programme Curriculum

Sustainable Urban Development Training Course

Introduction

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Course Duration

5 days

Course Objectives

By the end of this course, participants will be able to:

1. Understand the principles of Sustainable Urban Development and future city transformation strategies.
2. Apply climate-smart planning approaches for resilient and adaptable urban systems.
3. Develop strategies for Net Zero cities and low-carbon urban development.
4. Implement smart city technologies, digital transformation, and urban innovation solutions.
5. Integrate green infrastructure and nature-based solutions into urban planning.
6. Apply circular economy models for sustainable resource management.
7. Design sustainable approaches for urban mobility and transportation systems.
8. Evaluate urban projects using ESG (Environmental, Social, and Governance) frameworks.
9. Improve understanding of urban climate resilience and disaster risk reduction.
10. Promote inclusive cities, social equity, and community-based development.
11. Develop sustainable strategies for energy-efficient buildings and sustainable architecture.
12. Apply international standards and best practices for urban sustainability management.
13. Create actionable plans for green growth, sustainable cities, and resilient communities.

Target Audience

1. Urban planners and city development professionals
2. Architects, engineers, and infrastructure specialists
3. Government officials and municipal leaders
4. Sustainability and ESG professionals
5. Environmental consultants and climate experts
6. Real estate developers and smart city professionals
7. NGO representatives and community development practitioners
8. Researchers, academics, and postgraduate students

Course Modules

Module 1: Foundations of Sustainable Urban Development

- Evolution of sustainable cities and urban transformation trends
- Principles of sustainable urban planning and development
- Global urbanization challenges and opportunities
- UN SDGs and the New Urban Agenda framework
- Future trends in resilient and regenerative cities
- **Case Study: Copenhagen, Denmark – Climate-Friendly Urban Transformation**

Module 2: Climate Resilient Cities and Adaptation Strategies

- Climate change impacts on urban environments
- Urban resilience frameworks and adaptation planning
- Disaster risk reduction and emergency preparedness
- Heat island mitigation and climate-responsive design
- Building climate-smart communities
- **Case Study: Rotterdam, Netherlands – Water Resilient City Model**

Module 3: Smart Cities and Digital Urban Innovation

- Smart city ecosystems and digital transformation
- Artificial Intelligence (AI) applications in urban management
- Internet of Things (IoT) for urban monitoring
- Data-driven decision-making and urban analytics
- Digital twins for sustainable city planning
- **Case Study: Singapore – Smart Nation Urban Development Strategy**

Module 4: Green Infrastructure and Nature-Based Solutions

- Urban green spaces and ecosystem restoration
- Green roofs, urban forests, and biodiversity planning
- Nature-based solutions for climate resilience
- Sustainable landscape design principles
- Blue-green infrastructure development
- **Case Study: Singapore – City in Nature Approach**

Module 5: Sustainable Buildings and Energy Efficiency

- Green building principles and certifications
- Net Zero buildings and renewable energy systems
- Energy-efficient urban design
- Sustainable construction materials
- Carbon reduction strategies in buildings
- **Case Study: Vancouver, Canada – Green Building Strategy**

Module 6: Sustainable Mobility and Transportation Planning

- Low-carbon transportation systems
- Electric mobility and clean transport solutions
- Public transportation optimization
- Walkable and bicycle-friendly cities
- Mobility-as-a-Service (MaaS) concepts
- **Case Study: Amsterdam, Netherlands – Sustainable Mobility Model**

Module 7: Circular Economy and Sustainable Urban Resource Management

- Circular economy principles for cities
- Sustainable waste management systems
- Resource efficiency and urban metabolism
- Recycling and recovery strategies
- Sustainable water management solutions
- **Case Study: Tokyo, Japan – Circular Resource Management Practices**

Module 8: Sustainable Urban Governance and Future City Strategies

- Urban sustainability policies and governance models
- Stakeholder engagement and participatory planning
- ESG integration in urban projects
- Financing sustainable urban development
- Developing future-ready city action plans
- **Case Study: Barcelona, Spain – Human-Centered Smart City Planning**

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:

Register Online Now

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