Sustainable Urban Development Training Course

25 – 29 January 2027
Tokyo

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Sustainable Urban Development Training Course

Ref: 36352_43556 **Date:** 25 – 29 January 2027 **Location:** Tokyo **Fees:** 10000 Euro

Course Overview:

The course explores sustainable cities and urban practices, providing participants with essential knowledge about eco-cities, low-carbon solutions, and resource sustainability.

Key topics include city resilience, renewable energy, ecosystem services, and the urban ecological footprint. Participants will learn about water management, sustainable electricity, wastewater treatment, transit-oriented development TOD, and sustainable food systems.

By the end of the course, learners will acquire practical skills to address urban challenges, manage solid waste, promote biodiversity, and tackle air pollution, all in line with the Sustainable Development Goals SDGs.

Target Audience:

- Urban planners, architects, environmental scientists
- City government officials, municipal managers
- Corporate sustainability managers, CSR professionals
- Urban infrastructure consultants, renewable energy developers
- Professionals involved in water management, waste management, or public health
- Those looking to expand their skills in sustainable cities and ecosystem services

Targeted Organizational Departments:

- Urban Planning and Development
- Environmental and Resource Management
- Corporate Social Responsibility CSR
- Utilities and Water Management
- Waste Management
- Public Health and Community Engagement

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Targeted Industries:

- Urban development and construction
- Public health and safety
- Renewable energy and utilities
- Water management and sanitation
- Real estate and land-use planning
- Transportation and infrastructure development

Course Offerings:

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

- Implement sustainable urban planning practices that foster low-carbon cities
- Manage water resources effectively, including urban hydrological cycles and rainwater harvesting
- Apply strategies for municipal solid waste and wastewater treatment
- Design eco-friendly transit-oriented developments TOD that support city resilience
- Address air pollution and biodiversity conservation issues in urban settings
- Integrate SDG-aligned practices in urban and community planning efforts

Training Methodology:

This course offers an interactive approach to ensure effective learning outcomes. Participants will engage in case studies on low-carbon and eco-cities, group discussions on resource sustainability, and workshops on renewable energy solutions. They will analyze real-world challenges related to urban ecological footprints and decision support systems for planning. Daily review sessions will cover sustainable water management, pandemic preparedness, and climate change impacts on public health, equipping participants with practical skills in sustainable urban development.

Course Toolbox:

- Comprehensive ebooks and case studies
- Renewable energy and TOD templates
- Checklists for Urban Ecological Footprint Reduction
- SDG-aligned urban planning templates

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Course Agenda:

Day 1: Foundations of Sustainable Urban Development

- **Topic 1:** Introduction to Sustainable Urban Development
- **Topic 2:** Defining Sustainable Cities
- **Topic 3:** Eco-Cities and Low-Carbon Cities
- **Topic 4:** Resource Basis of Urban Life
- **Topic 5:** Understanding Ecosystem Services
- **Topic 6:** Economy and Environmental Balance
- **Reflection & Review:** Discussing key insights on sustainable city foundations and urban sustainability principles

Day 2: Environmental Impact and Resiliency

- **Topic 1:** Measuring the Urban Ecological Footprint
- **Topic 2:** Principles of Urban Sustainability
- **Topic 3:** Building City Resiliency
- **Topic 4:** Climate System of the Earth and Its Impacts
- **Topic 5:** Global Warming and Urban Environments
- **Topic 6:** Alternative Energy: Fossil Fuels and Nuclear Energy
- **Reflection & Review:** Reviewing the environmental challenges and resiliency strategies for urban areas

Day 3: Resource Management in Urban Areas

- **Topic 1:** Renewable Energy in Urban Settings
- **Topic 2:** Sustainable Electricity and Energy Efficiency
- **Topic 3:** The Hydrological Cycle and Urban Development
- **Topic 4:** Water Resources for Agriculture in Cities
- **Topic 5:** Comprehensive Water Management in Urban Areas
- **Topic 6:** Household Water Budgeting and Rain Harvesting Techniques
- **Reflection & Review:** Analyzing sustainable resource management practices and their applications in cities

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Day 4: Urban Waste and Food Systems

- **Topic 1:** Drinking Water Supply and Quality Management
- **Topic 2:** Wastewater Treatment and Reuse Strategies
- **Topic 3:** Municipal Solid Waste Management
- **Topic 4:** Organic Waste Solutions for Sustainable Cities
- **Topic 5:** Sustainable Food Systems in Urban Environments
- **Topic 6:** Eco2 Cities Model: Ecological and Economic Integration
- **Reflection & Review:** Discussing sustainable approaches to waste and resource cycles in urban environments

Day 5: Advanced Planning and Policy Integration

- **Topic 1:** Transit-Oriented Development TOD and Urban Flow
- **Topic 2:** Financing TOD through Land Values
- **Topic 3:** Preserving Historical and Cultural Heritage
- **Topic 4:** Land Use Planning and Decision Support Systems
- **Topic 5:** Sustainable Urban Drainage Systems and Urban Rivers
- **Topic 6:** Sustainable Cities in the Context of SDGs
- **Reflection & Review:** Reviewing policy, planning strategies, and the role of sustainable development goals in urban contexts

How This Course is Different from Other Sustainable Urban Development Courses:

This course uniquely combines practical and strategic elements of sustainable cities, urban resilience, and resource sustainability, differentiating itself through hands-on workshops and real-world applications. Emphasizing topics like low-carbon cities, renewable energy, and TOD, the course integrates cutting-edge methods and decision-support systems for urban planning. By focusing on essential areas such as water management, biodiversity conservation, and public health, this course is tailored to meet the needs of urban planners and city officials who aim to align with SDGs. Participants are empowered with a toolbox that includes SDG-aligned templates, renewable energy guidelines, and waste management checklists, ensuring they can immediately apply what they learn.