

Consulting and Training | Reach New Heights

Course Name

Sustainable Urban Infrastructure Design

Sector Name

Civil Engineering

Document Type

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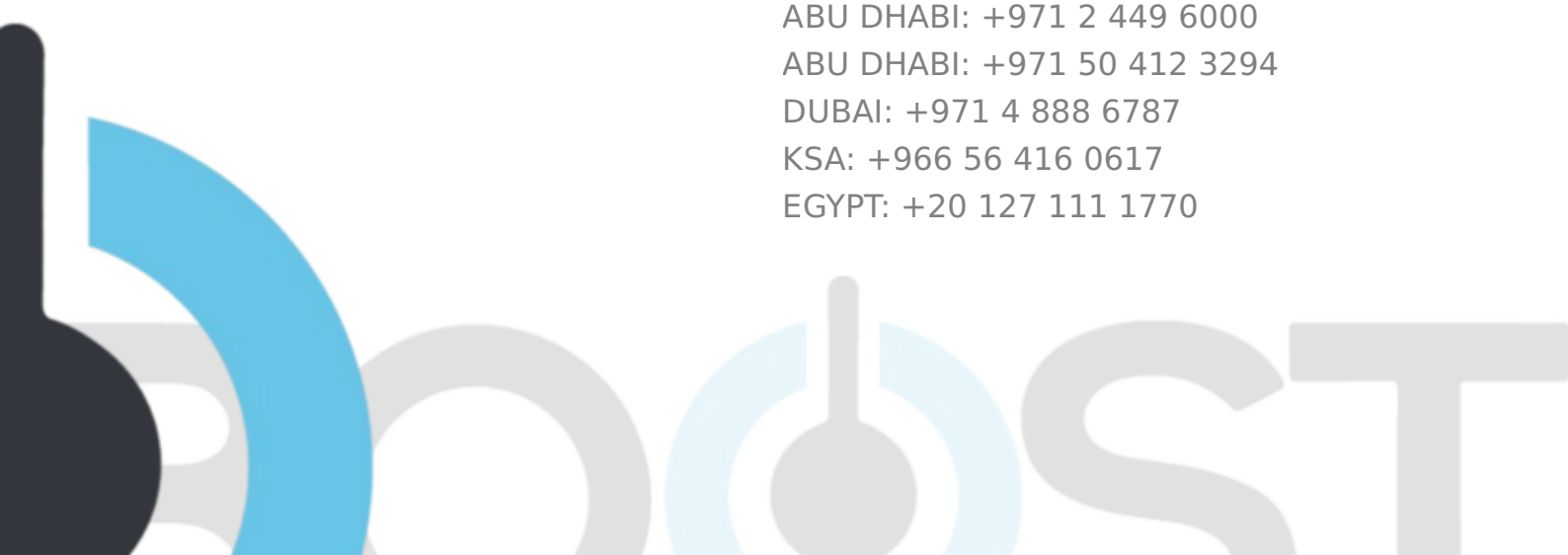
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Sustainable Urban Infrastructure Design

Course Introduction

Environmental Stability

Sustainable urban infrastructure design is a critical discipline for building resilient, inclusive, and eco-friendly cities. With the global population increasingly concentrated in urban areas, it is essential to develop infrastructure that meets the needs of today while preserving resources and ensuring environmental stability for future generations. This course provides a comprehensive understanding of sustainable infrastructure principles, cutting-edge technologies, and practical strategies to address the challenges of urbanization.

Participants will explore the integration of sustainability in planning, designing, and managing urban systems such as transportation, water, energy, and waste management. The program combines theoretical foundations with case studies and hands-on projects to equip participants with the skills to create sustainable urban environments.

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Target Audience

- ✓ Urban Planners and Designers:
- ✓ Civil and Environmental Engineers
- ✓ Architects

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Learning Objectives

- ✓ **Understand Key Concepts:** Introduce participants to the principles of sustainability and their application in urban infrastructure design.
- ✓ **Analyze Challenges:** Explore the environmental, social, and economic challenges of urbanization and their impact on infrastructure systems.
- ✓ **Develop Solutions:** Provide tools and methodologies to design and implement sustainable solutions for urban infrastructure.
- ✓ **Promote Innovation:** Encourage the use of innovative technologies and strategies to enhance sustainability in urban development.
- ✓ **Foster Collaboration:** Build a multidisciplinary approach by integrating perspectives from urban planning, engineering, policy-making, and community engagement.

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Sustainable Urban Infrastructure Design

Course Outline

✓ DAY 01

Foundations of Sustainable Urban Infrastructure

- ✓ Overview of sustainability principles
- ✓ Urbanization trends and their impact on infrastructure
- ✓ Frameworks for sustainable development (e.g., SDGs, LEED, BREEAM)
- ✓ **Interactive discussion:** Assessing the sustainability of current urban systems

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Course Outline

✓ Day 02

Sustainable Transportation Systems

- ✓ Designing energy-efficient and low-emission transport networks
- ✓ Integration of public transit, cycling, and pedestrian infrastructure
- ✓ **Case studies:** Smart mobility and urban transportation innovations
- ✓ **Group activity:** Developing a sustainable transport plan for a model city

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Course Outline

✓ Day 03

Water and Waste Management

- ✓ Sustainable water supply, treatment, and distribution
- ✓ Principles of circular economy in waste management
- ✓ Technologies for water reuse and waste recycling
- ✓ **Workshop:** Designing an integrated water and waste management system

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Course Outline

✓ Day 04

Energy and Green Building Design

- ✓ Renewable energy solutions for urban areas
- ✓ Energy-efficient building design and retrofitting
- ✓ Urban heat islands and climate-responsive architecture
- ✓ **Case studies:** Net-zero buildings and sustainable urban grids

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Course Outline

✓ Day 05

Holistic Urban Planning and Implementation

- ✓ Integrating green spaces and biodiversity into urban design
- ✓ Policy frameworks and financing sustainable infrastructure projects
- ✓ Stakeholder engagement and community-driven approaches
- ✓ **Final project presentations:** Proposing a sustainable infrastructure plan for a city

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4950.00 \$	Italy , Rome
May 10, 2027	May 14, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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