Training Course on Green Building and Sustainable Infrastructure Investment

Professional Development Training Course Outline

Category	CEOs and Directors	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The global imperative for **sustainable development** is reshaping the **built environment** landscape, driving unprecedented demand for expertise in **green building** and **sustainable infrastructure investment**. Training Course on Green Building and Sustainable Infrastructure Investment delves into the core principles, **innovative technologies**, and **financial mechanisms** that underpin environmentally responsible construction and resilient urban development. Participants will gain actionable insights to lead projects that not only minimize **environmental impact** but also deliver long-term **economic viability** and **social benefits**, ensuring a healthier planet for future generations.

As climate change accelerates and resource scarcity intensifies, the transition to a **circular economy** and **net-zero emissions** in the construction sector is no longer an option but a necessity. This program equips professionals with the strategic foresight and practical tools to navigate complex regulatory frameworks, leverage **green finance**, and implement **life cycle assessments** for optimal project outcomes. By fostering a deep understanding of **ESG (Environmental, Social, and Governance)** criteria and **climate resilience** strategies, we empower a new generation of leaders to drive meaningful change and contribute to a truly sustainable and **climate-adaptive** future.

Programme Curriculum

Training Course on Green Building and Sustainable Infrastructure Investment

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Course Objectives

Upon completion of this training, participants will be able to:

1. Comprehend the foundational principles of green building design and sustainable infrastructure development.
2. Analyze the environmental, social, and economic benefits of sustainable construction practices.
3. Evaluate various green building certifications and sustainability rating systems
4. Identify and apply innovative green building technologies and sustainable materials.
5. Master the concepts of energy efficiency, renewable energy integration, and water conservation in the built environment.
6. Conduct life cycle assessments (LCAs) and environmental impact analyses for building and infrastructure projects.
7. Understand the role of green finance, impact investing, and sustainable bonds in funding sustainable projects.
8. Formulate investment strategies for sustainable infrastructure assets and green real estate.
9. Navigate policy and regulatory frameworks related to sustainable urban development and climate action.
10. Develop strategies for stakeholder engagement and community participation in sustainable projects.
11. Implement robust ESG reporting and sustainability performance measurement frameworks.
12. Mitigate climate risks and enhance the resilience of infrastructure to environmental changes.
13. Contribute to achieving the United Nations Sustainable Development Goals (SDGs) through green building and infrastructure investment.

Organizational Benefits

- Position your organization as a leader in **sustainability** and **corporate social responsibility**.
- Achieve significant savings through **energy and water efficiency**, and optimized **resource management**.
- **Green-certified buildings** and **sustainable infrastructure** command higher market values and attract premium tenants/investors.
- Mitigate risks associated with **climate change**, regulatory shifts, and resource scarcity.
- Unlock new funding opportunities from **ESG-focused investors** and financial institutions.
- Appeal to a workforce increasingly seeking employers committed to **environmental stewardship**.
- Ensure adherence to evolving **environmental regulations** and prepare for future mandates.
- Foster a culture of **innovation** and gain a **competitive edge** in a rapidly evolving market.

- Build trust and collaboration with communities, investors, and governmental bodies.

Target Audience

- Architects and Urban Planners
- Civil and Environmental Engineers
- Real Estate Developers and Investors
- Construction Managers and Project Developers
- Financial Analysts and Investment Professionals
- Government Officials and Policymakers
- Environmental Consultants and Sustainability Managers
- Corporate Social Responsibility (CSR) and ESG Professionals

Course Outline

Module 1: Foundations of Green Building and Sustainable Infrastructure

- Defining Green Building and Sustainable Infrastructure.
- The Environmental, Social, and Economic (ESE) Case for Sustainability.
- Introduction to the Sustainable Development Goals (SDGs) and their relevance.
- Key principles of sustainable design and integrated project delivery.
- Global initiatives and frameworks: UN Habitat, C40 Cities, World Green Building Council.
- **Case Study:** The One Earth Project (India) - A comprehensive sustainable master plan demonstrating ESE integration.

Module 2: Sustainable Design Principles and Green Building Technologies

- Passive Design Strategies
- High-Performance Building Envelopes
- Green Roofs and Walls
- Smart Building Technologies
- Biomimicry and Biophilic Design: Integrating nature into the built environment for human well-being.
- **Case Study:** The California Academy of Sciences (USA) - Showcasing innovative passive design and green roof integration.

Module 3: Sustainable Materials and Resource Management

- Life Cycle Assessment (LCA) of Building Materials.
- Sustainable Material Selection
- Waste Management and Circular Economy Principles in Construction and Demolition.
- Modular and Prefabricated Construction
- Deconstruction and Adaptive Reuse: Extending the life cycle of existing structures.
- **Case Study:** The Bullitt Center (USA) - Demonstrating a "living building" approach with material transparency and net-positive impact.

Module 4: Energy Efficiency and Renewable Energy Integration

- Building Energy Modeling and Simulation
- High-Efficiency HVAC Systems
- On-site Renewable Energy Generation
- Grid Interaction and Energy Storage: Smart grids and battery storage solutions.
- Net-Zero Energy Buildings (NZEBs) and Net-Positive Energy Concepts.

- **Case Study:** Masdar City (UAE) - A pioneering city aiming for net-zero energy and waste through innovative design and renewable energy.

Module 5: Water Conservation and Management

- Water-Efficient Fixtures and Appliances: Reducing indoor water consumption.
- Rainwater Harvesting and Greywater Recycling Systems
- Stormwater Management and Green Infrastructure
- Water Quality and Treatment: Technologies for potable and non-potable water.
- Water Sensitive Urban Design (WSUD): Integrating water management into urban planning.
- **Case Study:** The BedZED Eco-Village (UK) - Showcasing advanced water recycling and sustainable drainage systems.

Module 6: Indoor Environmental Quality (IEQ) and Occupant Well-being

- Air Quality and Ventilation Strategies.
- Thermal Comfort and Daylight Optimization
- Acoustic Performance in Green Buildings.
- Occupant Health and Productivity
- Post-Occupancy Evaluation (POE): Assessing actual building performance and occupant satisfaction.
- **Case Study:** The WELL Building Standard certified offices (Various Locations) - Focus on health and wellness metrics.

Module 7: Green Building Certifications and Rating Systems

- Overview of Global Certifications
- Certification Process and Requirements.
- Strategic Selection of Certification Systems
- Beyond Certification: Performance-Based Design and Operations.
- Local Green Building Context
- **Case Study:** The Co-operative Bank of Kenya Headquarters (Kenya) - A LEED Platinum certified building, highlighting local application and benefits.

Module 8: Sustainable Site Development and Land Use

- Site Selection and Assessment
- Brownfield Redevelopment and Urban Infill
- Habitat Protection and Restoration
- Sustainable Landscape Design
- Transportation and Connectivity**Case Study:** The Olympic Park Transformation (London, UK) - Redevelopment of an industrial site into a sustainable urban park and community.

Module 9: Green Finance and Investment Landscape

- Introduction to Green Finance
- Green Bonds and Sustainable Loans.
- Impact Investing and ESG Integration in Real Estate Portfolios.
- Financial Incentives and Government Programs for Green Building.
- Risk Assessment and Due Diligence for Sustainable Investments.
- **Case Study:** The World Bank Green Bond Program - How international organizations finance sustainable development.

Module 10: Investment Strategies for Sustainable Infrastructure

- Valuation of Green Assets: Quantifying the financial benefits of sustainability.
- Public-Private Partnerships (PPPs) in Sustainable Infrastructure.
- Sustainable Infrastructure Asset Classes: Renewable energy, water treatment, sustainable transport.
- Investment Opportunities in Emerging Markets for Sustainable Infrastructure.
- Measuring and Reporting on Investment Impact: Aligning with SDGs and ESG metrics.
- **Case Study:** Geothermal Power Projects in Kenya - Analyzing investment and development in renewable energy infrastructure.

Module 11: Policy and Regulatory Frameworks

- International Agreements and Protocols: Paris Agreement, UNFCCC, SDG 11.
- National and Local Green Building Codes and Regulations.
- Incentives and Disincentives: Tax breaks, grants, carbon pricing.
- Role of Government in Promoting Sustainable Development.
- Advocacy and Lobbying for Green Policies.
- **Case Study:** German Renewable Energy Sources Act (EEG) - How policy frameworks drive renewable energy adoption.

Module 12: Climate Change Adaptation and Resilience

- Understanding Climate Risks
- Climate-Resilient Design Strategies for Buildings and Infrastructure.
- Adaptive Capacity and Vulnerability Assessment
- Nature-Based Solutions for Climate Adaptation
- Disaster Risk Reduction and Post-Disaster Reconstruction**.**
- **Case Study:** Rotterdam's "Room for the River" Project (Netherlands) - A large-scale climate adaptation project for flood management.

Module 13: Stakeholder Engagement and Communication

- Identifying and Engaging Key Stakeholders
- Effective Communication Strategies for Sustainable Projects
- Public Awareness and Education Campaigns
- Building Partnerships and Collaborations for Collective Impact.
- Conflict Resolution and Consensus Building in Sustainable Development**.**
- **Case Study:** The High Line (New York City, USA) - Community-led urban regeneration fostering public engagement.

Module 14: Measuring, Reporting, and Verification (MRV) of Sustainability Performance

- Key Performance Indicators (KPIs) for Green Buildings and Sustainable Infrastructure.
- Data Collection and Monitoring Systems
- ESG Reporting Frameworks: GRI, SASB, TCFD.
- Third-Party Verification and Auditing of Sustainability Claims.
- Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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