SUSTAINABLE INFRASTRUCTURE AND GREEN PROJECT MANAGEMENT COURSE

Introduction

The Executive Course in Sustainable Infrastructure and Green Project Management equips senior executives, project managers, policymakers, engineers, infrastructure developers, and sustainability professionals with the strategic knowledge and practical tools required to design, implement, govern, and evaluate sustainable infrastructure projects. The Course integrates Environmental, Social, and Governance (ESG) principles throughout the project lifecycle, enabling organizations to improve project performance, strengthen resilience to climate change, optimize resource efficiency, and meet regulatory and investor expectations. Infrastructure development is central to economic growth, industrialization, urbanization, and improved quality of life. However, increasing climate risks, environmental degradation, resource constraints, and evolving stakeholder expectations demand a new approach to planning, financing, delivering, and managing infrastructure projects. Participants will explore sustainable infrastructure planning, green project governance, climate risk assessment, resilient infrastructure design, sustainable procurement, environmental and social safeguards, project financing, ESG integration, monitoring and evaluation, and digital innovations in infrastructure management. The programme aligns with internationally recognized standards and frameworks, including the UN Sustainable Development Goals (SDGs), Paris Agreement, IFC Performance Standards, World Bank Environmental and Social Framework (ESF), ISO 21502 Project Management, ISO 14001 Environmental Management Systems, Envision Sustainable Infrastructure Framework, and the Equator Principles.

Course Objectives

- Understand principles of sustainable infrastructure development.
- Integrate ESG considerations into project planning and implementation.

- Design climate-resilient and resource-efficient infrastructure projects.
- Apply sustainable project governance and risk management practices.
- Conduct environmental and social impact assessments.
- Strengthen project sustainability through responsible procurement and stakeholder engagement.
- Mobilize sustainable financing for infrastructure development.
- Monitor infrastructure sustainability performance using international frameworks.
- Improve project governance, accountability, and long-term value creation.
- Lead organizational transformation toward sustainable infrastructure development.

Course Modules

> Module 1: Foundations of Sustainable Infrastructure and Green Development

- Principles of sustainable infrastructure
- Green growth and sustainable development
- ESG in infrastructure development
- Global infrastructure sustainability trends

> Module 2: Sustainable Infrastructure Planning and Strategic Project Design

- Infrastructure needs assessment
- Climate-responsive project planning
- Sustainable project design principles
- Infrastructure investment prioritization

> Module 3: Climate-Resilient Infrastructure and Adaptation

- Climate risk and vulnerability assessment
- Climate adaptation strategies
- Disaster-resilient infrastructure
- Nature-based infrastructure solutions

> Module 4: ESG Integration and Environmental & Social Safeguards

- ESG integration throughout the project lifecycle
- Environmental and Social Impact Assessment (ESIA)
- Stakeholder engagement and social safeguards
- Biodiversity conservation and environmental protection

> Module 5: Green Project Governance and Risk Management
- Project governance frameworks
- Governance, Risk, and Compliance (GRC)
- Infrastructure risk management
- Project assurance and accountability

> Module 6: Sustainable Procurement, Contract Management and Value Chains
- Sustainable procurement strategies
- Green procurement standards
- Contract management for sustainability
- Sustainable supply chains and local content

> Module 7: Sustainable Infrastructure Finance and Investment
- Green infrastructure financing
- Climate finance and blended finance
- Public-private partnerships (PPPs)
- Investment appraisal for sustainable projects

> Module 8: Project Performance Monitoring, ESG Reporting and Digital Innovation
- Infrastructure performance indicators
- ESG reporting and sustainability disclosures
- Digital technologies in infrastructure management
- Smart infrastructure and data analytics

> Module 9: Innovation, Circular Economy and Low-Carbon Infrastructure
- Circular economy in infrastructure
- Resource-efficient construction
- Low-carbon materials and technologies
- Renewable energy infrastructure

> Module 10: Developing a Sustainable Infrastructure Implementation Roadmap
- Infrastructure sustainability maturity assessment
- Organizational implementation strategy
- Monitoring and continuous improvement

- Executive action planning