CARBON MANAGEMENT, NET-ZERO STRATEGY AND ENERGY TRANSITION COURSE

Introduction

The Executive Course in Carbon Management, Net-Zero Strategy and Energy Transition equips senior executives, sustainability professionals, policymakers, energy leaders, and finance practitioners with the strategic knowledge and practical tools required to design, implement, and monitor comprehensive carbon management and net-zero strategies. Achieving a net-zero economy is one of the defining global priorities of the twenty-first century. Governments, corporations, financial institutions, and development organizations are committing to ambitious greenhouse gas (GHG) reduction targets to mitigate climate change, strengthen energy security, improve competitiveness, and meet increasingly stringent regulatory and investor expectations. Participants will gain a deep understanding of greenhouse gas accounting, carbon footprint measurement, emissions reduction pathways, renewable energy integration, climate transition planning, energy efficiency, carbon markets, and low-carbon innovation. The programme examines how organizations can identify carbon hotspots, establish science-based emissions reduction targets, develop net-zero transition roadmaps, manage climate-related risks, leverage clean energy technologies, and comply with evolving international climate regulations and disclosure requirements. The programme is aligned with internationally recognized climate and sustainability frameworks, including the Paris Agreement, Greenhouse Gas (GHG) Protocol, Science Based Targets initiative (SBTi), IFRS Sustainability Disclosure Standards (ISSB), ISO 14064, ISO 50001, and the United Nations Sustainable Development Goals (SDGs).

Course Objectives

- Understand carbon management principles and global climate commitments.
- Measure and manage organizational greenhouse gas emissions.

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Location Thika & Nairobi

- Conduct carbon accounting using internationally recognized standards.
- Develop science-based net-zero and decarbonization strategies.
- Design renewable energy and energy transition plans.
- Improve energy efficiency and resource productivity.
- Integrate climate risks into enterprise strategy and governance.
- Evaluate carbon markets and carbon financing opportunities.
- Monitor and report carbon performance using global reporting standards.
- Lead organizational transformation towards a low-carbon and climate-resilient future.

Course Modules

> Module 1: Climate Change, Carbon Management and Net-Zero Leadership
- Climate science and global carbon challenges
- Carbon management principles
- Net-zero commitments and transition pathways
- Climate leadership and organizational transformation

> Module 2: Greenhouse Gas Accounting and Carbon Footprint Measurement
- Greenhouse Gas (GHG) Protocol
- Scope 1, Scope 2 and Scope 3 emissions
- Organizational carbon footprint assessment
- Carbon data collection and verification

> Module 3: Carbon Accounting, Reporting and Disclosure
- Carbon accounting methodologies
- IFRS Sustainability Disclosure Standards (ISSB)
- Climate-related financial disclosures
- Carbon reporting and assurance

> Module 4: Decarbonization Strategies and Net-Zero Roadmaps
- Emissions reduction planning
- Science-Based Targets (SBTi)
- Low-carbon operational strategies
- Developing organizational net-zero roadmaps

> Module 5: Renewable Energy and Energy Transition
- Renewable energy technologies

- Clean energy integration
- Energy transition planning
- Sustainable energy investment

> Module 6: Energy Efficiency and Low-Carbon Operations
- Energy management systems
- Energy efficiency improvement
- Industrial decarbonization
- Resource optimization and operational excellence

> Module 7: Carbon Markets, Carbon Finance and Climate Investment
- Carbon pricing mechanisms
- Carbon trading and voluntary carbon markets
- Carbon credits and offsetting
- Climate finance opportunities

> Module 8: Climate Risk, Resilience and ESG Integration
- Climate-related physical and transition risks
- Enterprise climate risk management
- ESG integration into strategic planning
- Climate governance and resilience

> Module 9: Innovation, Green Technologies and Circular Carbon Solutions
- Carbon capture, utilization and storage (CCUS)
- Hydrogen economy and emerging energy technologies
- Circular economy approaches to carbon reduction
- Digital innovation for carbon management

> Module 10: Developing an Organizational Net-Zero Strategy
- Carbon maturity assessment
- Organizational climate action planning
- Monitoring, reporting and continuous improvement
- Executive implementation roadmap