SUSTAINABILITY ANALYTICS, ESG DATA AND STRATEGIC DECISION MAKING COURSE

Introduction

The Executive Course in Sustainability Analytics, ESG Data and Strategic Decision Making equips senior executives, sustainability leaders, analysts, strategy professionals, and public sector managers with the knowledge and practical skills required to collect, manage, analyze, interpret, visualize, and report sustainability and ESG information. The Course demonstrates how organizations can integrate business intelligence, predictive analytics, artificial intelligence (AI), machine learning, digital dashboards, and executive reporting tools into sustainability management systems to improve organizational performance and strategic decision-making. Participants will explore ESG metrics, sustainability Key Performance Indicators (KPIs), ESG data governance, climate analytics, digital reporting systems, predictive modelling, AI-enabled sustainability management, integrated performance dashboards, executive reporting, and data-driven strategy execution. The programme is aligned with internationally recognized sustainability reporting, analytics, governance, and data management standards, including the IFRS Sustainability Disclosure Standards (ISSB), Global Reporting Initiative (GRI), SASB Standards, Task Force on Climate-related Financial Disclosures (TCFD), ISO 30414, ISO 8000 Data Quality, ISO 37301 Compliance Management, and the United Nations Sustainable Development Goals (SDGs).

Course Objectives

- Understand sustainability analytics and ESG data management principles.
- Design ESG performance measurement systems using internationally recognized frameworks.
- Develop meaningful ESG KPIs and sustainability scorecards.
- Apply business intelligence and data analytics techniques to sustainability reporting.

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Location Thika & Nairobi

- Build executive dashboards that support strategic decision-making.
- Use predictive analytics and AI to improve sustainability performance.
- Strengthen ESG reporting, compliance, and disclosure processes.
- Integrate sustainability data into enterprise performance management systems.
- Improve executive decision-making using evidence-based sustainability insights.
- Lead organizational digital transformation through advanced ESG analytics.

Course Modules

> Module 1: Foundations of Sustainability Analytics and ESG Data Management

- Principles of sustainability analytics
- ESG data ecosystem and governance
- Sustainability reporting landscape
- Strategic value of ESG information

> Module 2: ESG Metrics, KPIs and Sustainability Performance Measurement

- ESG performance indicators
- Sustainability KPIs and scorecards
- Materiality assessment
- Data quality and performance assurance

> Module 3: ESG Data Collection, Governance and Digital Management

- ESG data collection methodologies
- Data governance frameworks
- Data quality management
- ESG information management systems

> Module 4: Business Intelligence, Dashboards and Executive Reporting

- Business Intelligence (BI) fundamentals
- Executive dashboard development
- Data visualization techniques
- Strategic reporting for executives and boards

> Module 5: Artificial Intelligence, Machine Learning and Sustainability Analytics

- AI applications in sustainability

- Machine learning for ESG insights
- Intelligent automation
- Ethical AI and responsible data use

> Module 6: Predictive Analytics and Strategic Decision Support
- Predictive analytics techniques
- Scenario modelling and forecasting
- Climate and sustainability risk analytics
- Evidence-based executive decision-making

> Module 7: ESG Reporting, Compliance and Global Disclosure Frameworks
- IFRS Sustainability Disclosure Standards (ISSB)
- Global Reporting Initiative (GRI)
- SASB Standards
- Integrated sustainability reporting

> Module 8: Digital Transformation, Smart Technologies and Sustainability Innovation
- Digital transformation strategies
- Cloud-based ESG platforms
- Internet of Things (IoT) for sustainability
- Emerging sustainability technologies

> Module 9: Enterprise Performance Management and Continuous Improvement
- Integrated performance management
- ESG Balanced Scorecards
- Organizational maturity assessments
- Continuous improvement frameworks

> Module 10: Developing an ESG Analytics and Executive Reporting Strategy
- ESG analytics maturity assessment
- Enterprise ESG data strategy
- Executive reporting framework
- Organizational implementation roadmap