

ESG Analytics for Sustainable Performance and Value Creation

27 September – 1 October 2027
Kuala Lumpur (Malaysia)

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Introduction

In an era where sustainability has evolved from a voluntary initiative to a strategic necessity, ESG Data Analytics and Sustainability Performance Measurement has become a cornerstone of modern business management.

Organizations are now expected not only to operate responsibly but also to quantify and demonstrate their impact on the environment, society, and governance.

This program is designed to equip participants with practical tools to collect, analyze, and interpret ESG data effectively, linking insights to performance improvement and long-term corporate value creation.

Through a combination of analytical frameworks and case-based learning, professionals gain the ability to transform ESG information into actionable strategies that drive sustainable growth and transparency.

Course Objectives

- Understand the fundamentals of ESG metrics and their significance in corporate decision-making.
- Learn how to collect, manage, and analyze sustainability data effectively.
- Apply data analytics tools to assess environmental, social, and governance performance.
- Develop key performance indicators KPIs for sustainability benchmarking.
- Utilize ESG insights to enhance risk management and operational efficiency.
- Integrate sustainability metrics into enterprise reporting and investment strategies.
- Learn to align performance measurement with international standards GRI, SASB, TCFD.
- Evaluate real-world ESG data applications across industries.

Course Outlines

Day 1: Foundations of ESG and Sustainability Data

- Introduction to ESG principles and their link to business strategy.
- Understanding ESG frameworks and reporting standards.
- Key sustainability metrics and performance dimensions.
- Data sources: internal systems, stakeholders, and external databases.
- Challenges in ESG data accuracy and consistency.
- Workshop: Identifying relevant ESG indicators for your organization.

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A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) positioned on it. The board is white and black, and the pieces are gold and silver.

Day 2: ESG Data Management and Quality Control

- Building an ESG data governance framework.
- Setting data collection methodologies and validation procedures.
- Using technology platforms for data consolidation and automation.
- Ensuring data integrity through standardization and auditing.
- Addressing issues of transparency, comparability, and traceability.
- Practical session: Designing a sustainable data management system.

Day 3: Analytics and Insights for Sustainability Performance

- Applying descriptive, diagnostic, and predictive analytics in ESG reporting.
- Using dashboards and visualization tools to interpret ESG performance.
- Correlating ESG data with financial and operational results.
- Employing AI and machine learning for sustainability forecasting.
- Case study: Measuring carbon intensity and social value creation.
- Exercise: Building an ESG performance analysis report.

Day 4: Linking ESG Analytics to Strategy and Value Creation

- Translating ESG insights into strategic business decisions.
- Integrating sustainability KPIs into balanced scorecards and risk frameworks.
- Quantifying non-financial value: reputational, environmental, and social capital.
- Communicating ESG performance to investors and regulators.
- Scenario modeling for long-term sustainability planning.
- Workshop: Developing a data-driven ESG improvement roadmap.

Day 5: ESG Reporting, Assurance, and Continuous Improvement

- Understanding ESG disclosure requirements and assurance mechanisms.
- Preparing ESG performance reports in compliance with international standards.
- Establishing internal and external reporting cycles.
- Setting benchmarks and measuring progress over time.
- Leveraging ESG analytics for continuous organizational improvement.
- Final project: Presenting a sustainability performance measurement framework.

Why Attend this Course: Wins & Losses!

- Gain comprehensive knowledge of ESG data analytics and sustainability metrics.
- Strengthen decision-making through data-driven insights.
- Enhance transparency and credibility with investors and stakeholders.
- Improve performance tracking across environmental, social, and governance pillars.
- Learn to use advanced analytical tools to measure and communicate impact.
- Align sustainability strategies with international reporting standards.
- Build internal capacity for consistent, verifiable ESG data management.
- Access case-based insights from global sustainability leaders.

Conclusion

The ESG Data Analytics and Sustainability Performance Measurement program offers a structured, practical pathway to mastering data-driven sustainability management. By leveraging analytics, organizations can move beyond compliance to strategic foresight — turning ESG data into actionable insights that improve performance, resilience, and long-term value creation.

This course bridges the gap between sustainability ambition and measurable execution, empowering leaders to embed analytics at the core of responsible business transformation. In a world increasingly defined by transparency and accountability, mastering ESG data is not just a competitive advantage — it is a necessity for sustainable success.

A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) in gold and silver, set against a background of concentric circles.

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